

11 Clearwater Drive Little Rock, AR 72204 501.688.1400

# **Specification Details Index**

8/28/2023 10:12:08 AM

- **SECTION 1 MANHOLES**
- **SECTION 2 RINGS AND LIDS**
- **SECTION 3 TRENCHING**
- **SECTION 4 MANHOLE AND PIPE REHAB**
- **SECTION 5 SERVICE LINES**
- **SECTION 6 STREETS/ALLEYS/DRIVEWAYS**
- **SECTION 7 FENCING**
- **SECTION 8 FORCE MAINS**
- **SECTION 9 EROSION CONTROL DETAILS**
- **SECTION 10 MISCELLANEOUS DETAILS**

# **SECTION 1 – MANHOLES**

Drawing #	Drawing Name
1.0	Standard Precast Manhole
1.1	Standard Cast In Place Manhole Detail & Table
1.2	Precast Eccentric Manhole Detail & Table
1.3	Cast In Place Eccentric Manhole Detail & Table
1.4	Standard Outside Drop Manhole Detail
1.5	Standard Inside Drop Manhole Detail
1.6	Standard Two Foot Diameter Manhole
1.7	Standard Precast 2' Diameter Manhole Detail
1.8	8' Diameter Manhole Detail
1.9	10' Diameter Manhole Detail
1.10	Manhole Joint Wrap Detail
1.11	Typical Manhole Adjust to Grade Detail
1.12	Existing Manhole Abandonment Detail
1.13	Manhole Disconnect and Seal Detail

## **SECTION 2 – RINGS AND LIDS**

- 2.0 Standard Manhole Ring and Lid
- 2.1A 2 Inch Ring Extension
- 2.1B 4 inch Ring Extension

2.1C	6 inch Ring Extension
2.2A	24 Inch Revolution Style Manhole Cover Assembly Ring and Lid
2.3	Hinged "ERGO" Manhole Assembly 24 Inch Ring and Lid
2.4	24 Inch Reversible Manhole Cover Assembly Ring and Lid
2.5	24 Inch Composite Manhole Cover Assembly Ring and Lid
2.6	30 Inch Manhole Cover Assembly Lid
2.7	30 Inch Manhole Cover Assembly Ring
2.8	30 Inch Revolution Style Manhole Cover Assembly Ring and Lid
2.9	Hinged "ERGO XL" Manhole Assembly 30 Inch Ring and Lid
2.10	30 Inch Composite Manhole Cover Assembly Ring and Lid
2.11	36 Inch Manhole Cover Assembly Ring and Lid
2.12	36 Inch Reversible Manhole Cover Assembly Ring and Lid
2.13	Hinged "ERGO XL" Manhole Assembly 36 Inch Ring and Lid
2.14	24 Inch Composite Manhole Cover Assembly Ring and Lid

## **SECTION 3 – TRENCHING**

- 3.0 Typical Trench Bedding Details for Flexible and Rigid Pipe
- 3.1 Trench Bedding Details for Flexible and Rigid Pipe with Stone Backfill

# **SECTION 4 – MANHOLE AND PIPE REHAB**

### Drawing # Drawing Name

4.0	Temporary Debris Catch Riser Detail and Table
4.1	Standard Manhole Frame Replacement Detail
4.2	Sewer Line Rehabilitation by Pipe Bursting with HDPE Pipe Details
4.3	Seal HDPE at Manhole Details
4.4	Sealing HDPE at Outside Drops Detail
4.5	HDPE Splice Detail
4.6	Installation of Polyethylene Encasement Details

## **SECTION 5 – SERVICE LINES**

5.0	Typical Private Residence Sewer System Layout
5.1	One-Way Cleanout Detail
5.2	Two-Way Cleanout Details
5.3	New Construction Connection to House Service Detail
5.4	New Construction Service Wye Detail
5.5	Saddle Details
5.6	Flexible Coupling Details
5.7	Standard Service Creek Crossing Details

5.8	Typical Dwelling Served by a Main Sewer Under the Street or Alley with
	Curb and Sidewalk
5.9	Typical Dwelling Served by a Main Sewer Under the Street or Alley with
	Curb and Sidewalk
5.10	Typical Dwelling Served by a Main Sewer Under the Street or Alley with
	Curb and Sidewalk
5.11	Typical Dwelling Served by a Main Sewer Under the Street or Alley with
	Curb and Sidewalk
5.12	Typical Dwelling Served by a Main Sewer In the Street or Alley with Ditch
	and No Curb or Sidewalk
5.13	Typical Dwelling Served by a Main Sewer In the Street or Alley with Ditch
	and No Curb or Sidewalk
5.14	Typical Dwelling Served by a Main Sewer Across the Street or Alley with
	Ditches and No Curb or Sidewalk
5.15	Typical Dwelling Served by a Main Sewer Across the Street or Alley with
	Ditches and No Curb or Sidewalk
5.16	Typical Dwelling Served by a Main Sewer Across the Street or Alley with
	Curb and Sidewalk
5.17	Typical Dwelling Served by a Main Sewer Across the Street or Alley with
	Curb and Sidewalk
5.18	Typical Dwelling Served by a Main Sewer Across the Street or Alley with
	Curb and Sidewalk

5.19	Typical Dwelling Served by a Main Sewer Across the Street or Alley with
	Curb and Sidewalk
5.20	Typical Dwelling Served by a Main Sewer In a Back or Side Yard
	Located Within an Easement
5.21	Typical Dwelling Served by a Main Sewer In a Back or Side Yard
	Located Within an Easement

### **SECTION 6 – STREETS/ALLEYS/DRIVEWAYS**

#### **Drawing #** Drawing Name

- 6.0 City and County Streets Repair Details
- 6.1 Alley Repair Detail
- 6.2 Asphalt / Concrete Drive and Parking Area Repair Details
- 6.3 Concrete Drive Section New Construction
- 6.4 Gravel Alleys and Streets Repair Details
- 6.5 Typical Section Access Drive New Construction
- 6.6 Curb and Gutter Details Including Street Milling for Existing Curb and Gutter

#### **SECTION 7 – FENCING**

- 7.0 Chain Link Fence Details
- 7.1 Typical Wood Privacy Fence Details
- 7.2 Fences, Posts and Guardrail Details

# **SECTION 8 – FORCE MAINS**

Drawing #	Drawing Name
8.0	Force Main Laying Conditions Details
8.1	Thrust Blocking Details
8.2	Concrete Thrust Block and Collar Bearing Table
8.3	Typical Flushing Station Connection
8.4	Gate Valve Detail
8.5	Combination Sewage – Air Release Valve Details

### **SECTION 9 - EROSION CONTROL DETAILS**

Drawing #	Drawing Name
9.0	Rock Check Dam
9.1	Woven Willow Check Dam
9.2	Semi-Pervious Straw Bale Sediment Barrier
9.3	Straw Bale Dike
9.4	Straw Bale / Gravel Drop Inlet Sediment Barrier
9.5	Straw Anchoring
9.6	Surface Roughening

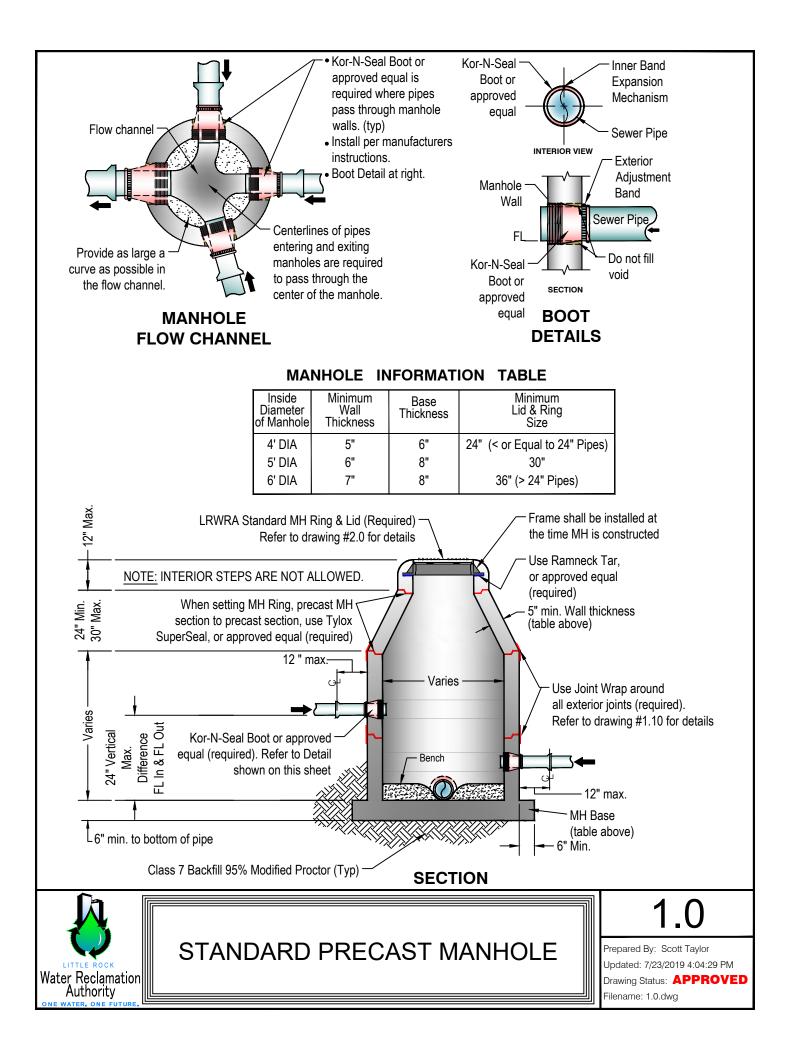
9.7	Silt Fence
9.8	Silt Fence Typical Placement – One Slope
9.9	Silt Fence Typical Placement – Two Slopes
9.10	Silt Fence Placement for Perimeter Control
9.11	Silt Fence Installation
9.12	Curb Inlet Sediment Barrier (Sand Bags)
9.13	Rock Deflector
9.14	Riprap Protection
9.15	Rock Lined Channel
9.16	In-Stream Erosion and Sediment Control Isolation Techniques
9.17	In-Stream Erosion and Sediment Control Isolation Techniques
9.18	Grass-Lined Channel Typical Installation
9.19	Grass-Lined Channel Typical Cross Sections
9.20	Temporary Gravel Construction Entrance / Exit
9.21	Energy Dissipator
9.22	Curb and Gutter Sediment Barrier
9.23	Continuous Berm
9.24	Coir Rolls / Coir Mats
9.25	Erosion Blankets & Turf Reinforcement Mats Channel Installation
9.26	Curb Inlet Sediment Barrier (Block & Gravel)
9.27	Block and Gravel Drop Inlet Sediment Barrier

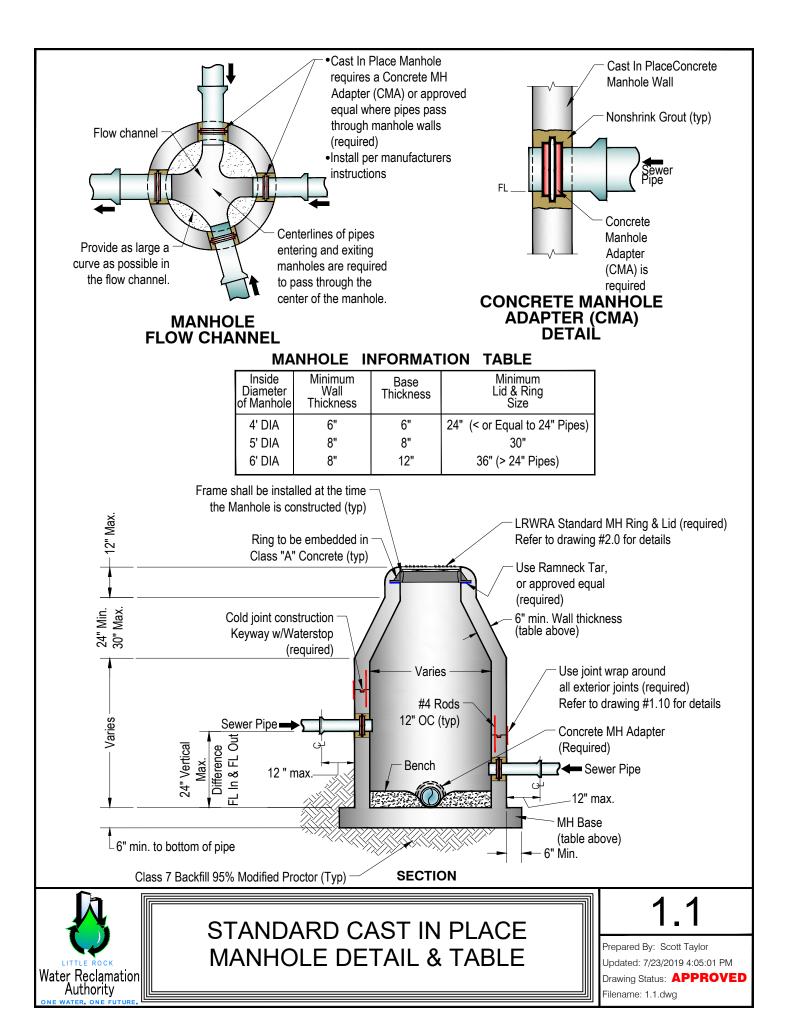
# **SECTION 10 – MISCELLANEOUS DETAILS**

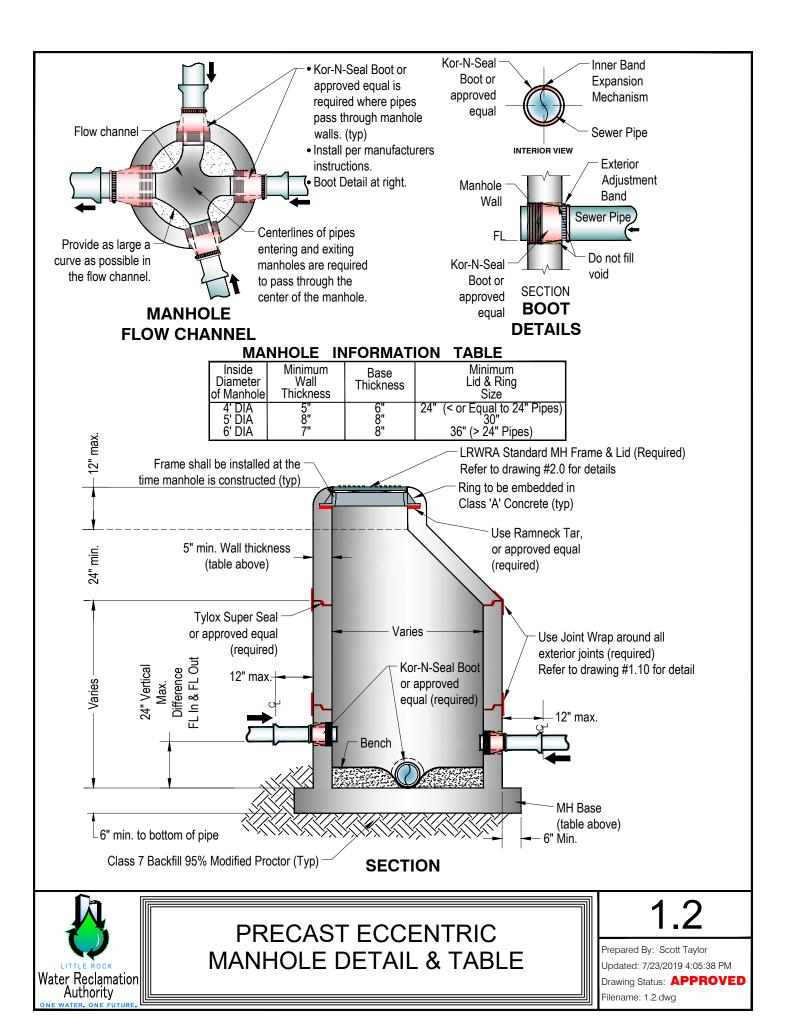
Drawing #	Drawing Name
10.0	Typical Pipe Bollard Detail
10.1	Encasement Pipe Details
10.2	Standard Riprap Detail
10.3	Standard Splash Pad Details
10.4	Anchor Collar Details and Table
10.5	Sewer and Water Main Crossing Details
10.6	Storm Drain Conflict Box Details
10.7	Pier Details
10.8	Type "D" Encasement Details
10.9	Tree Drip Line Detail

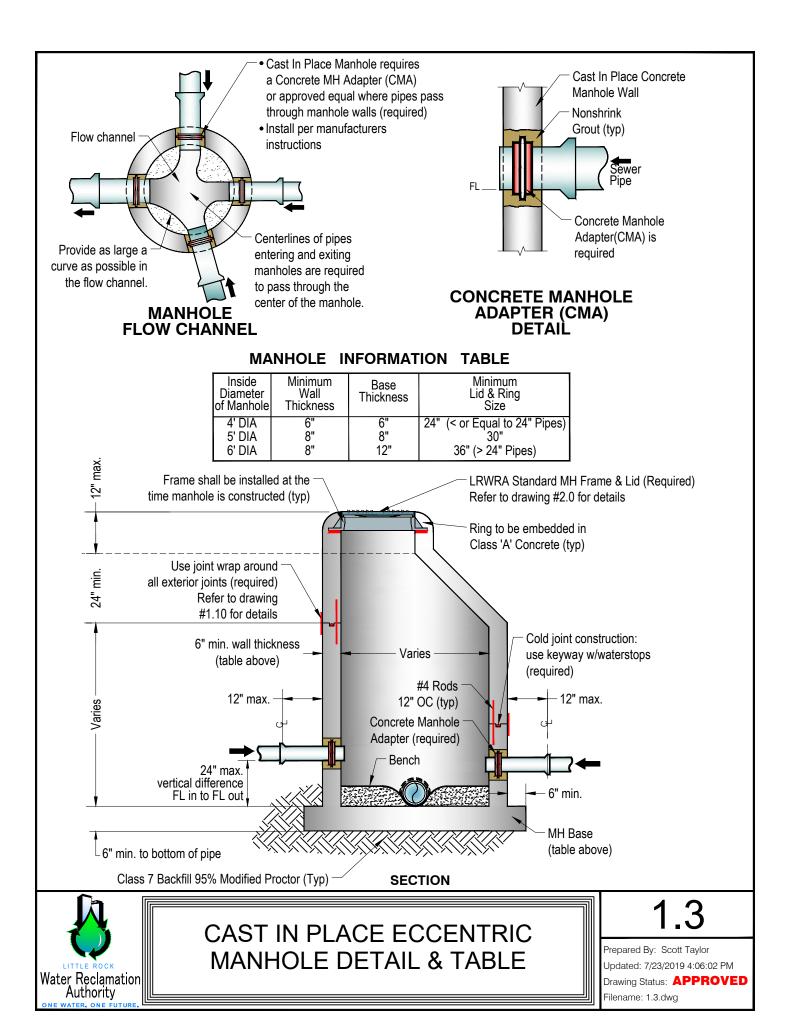
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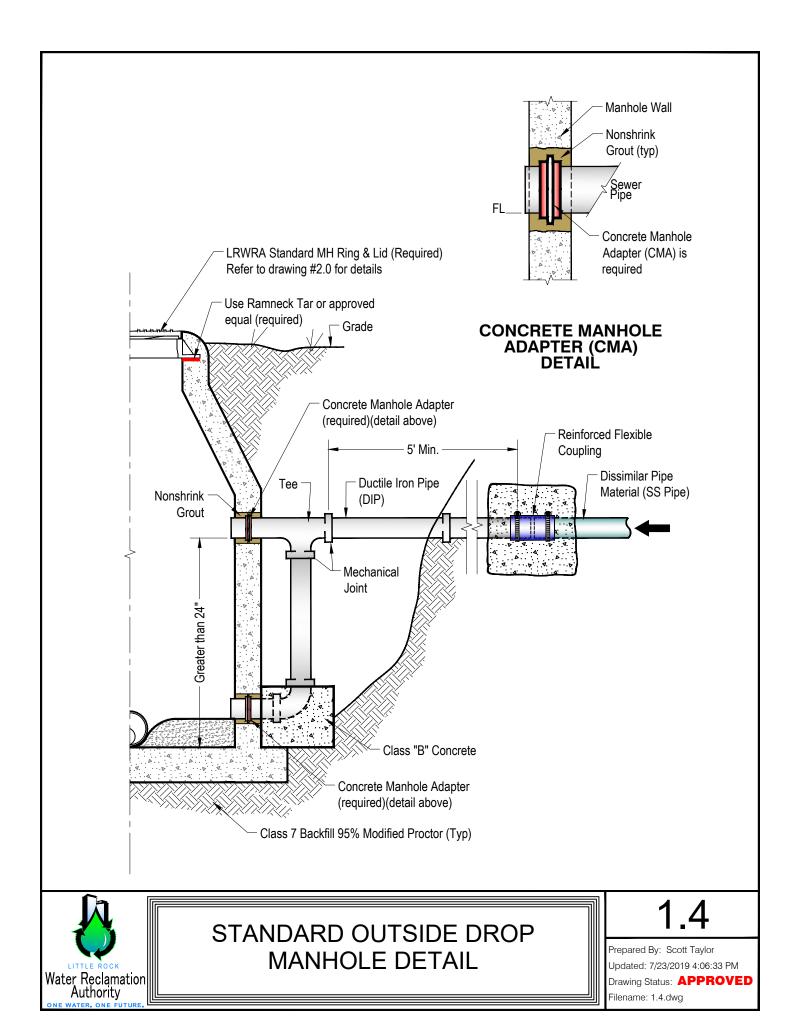
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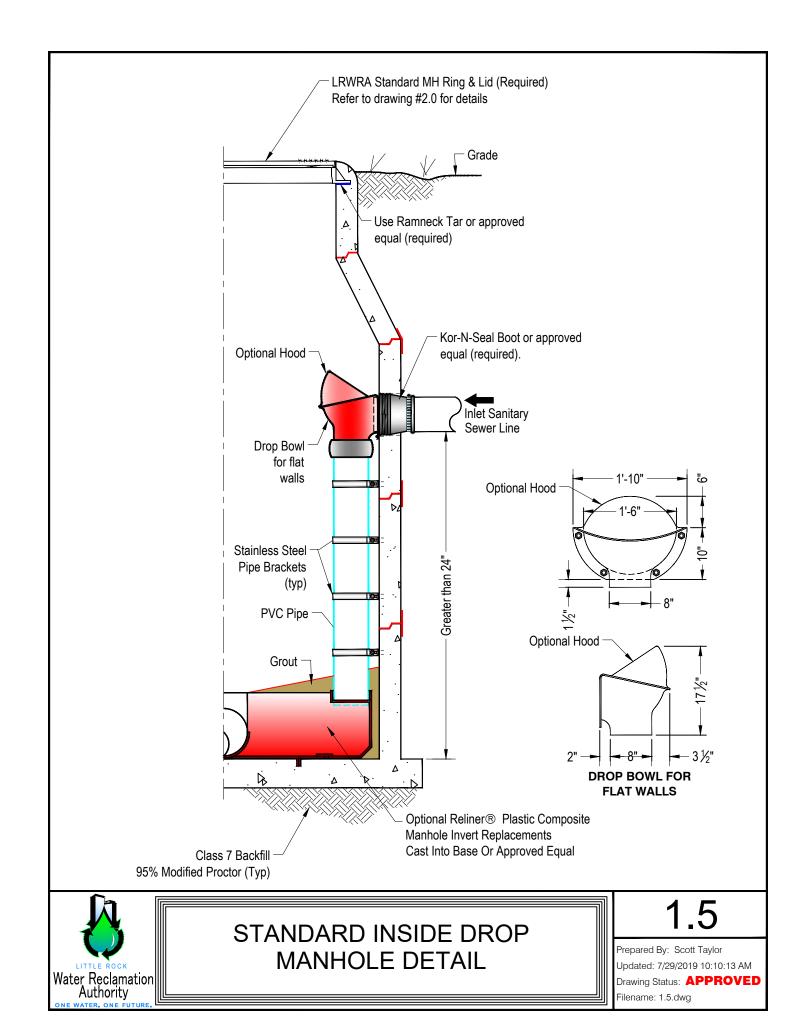


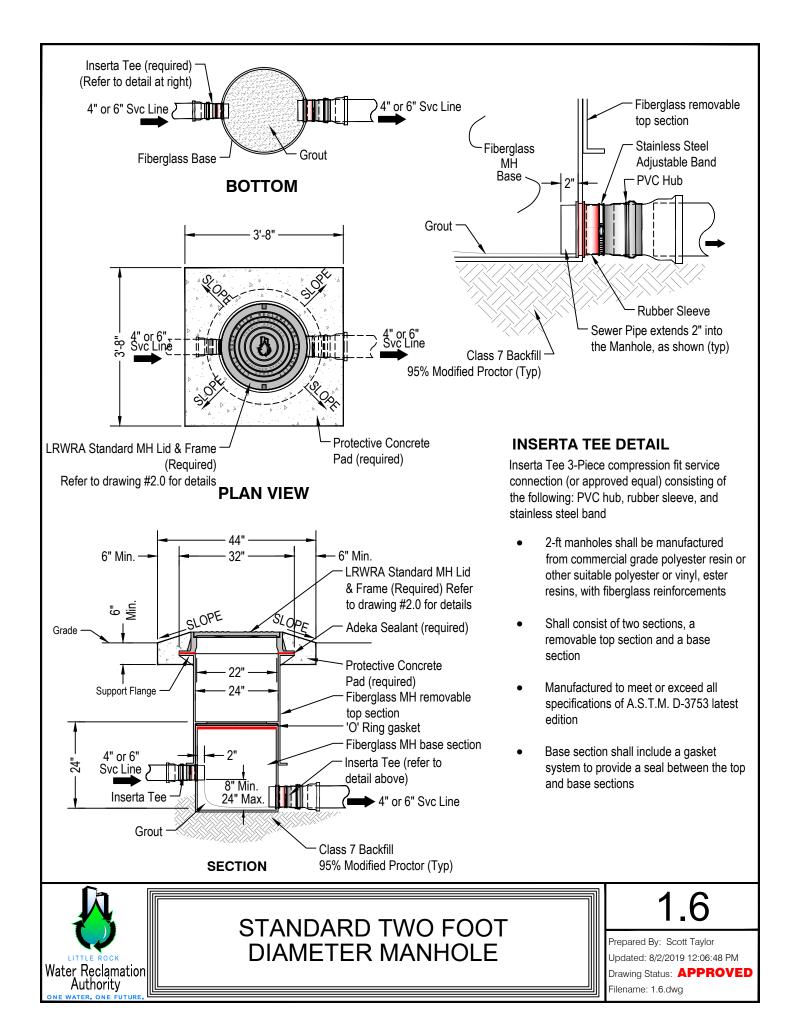


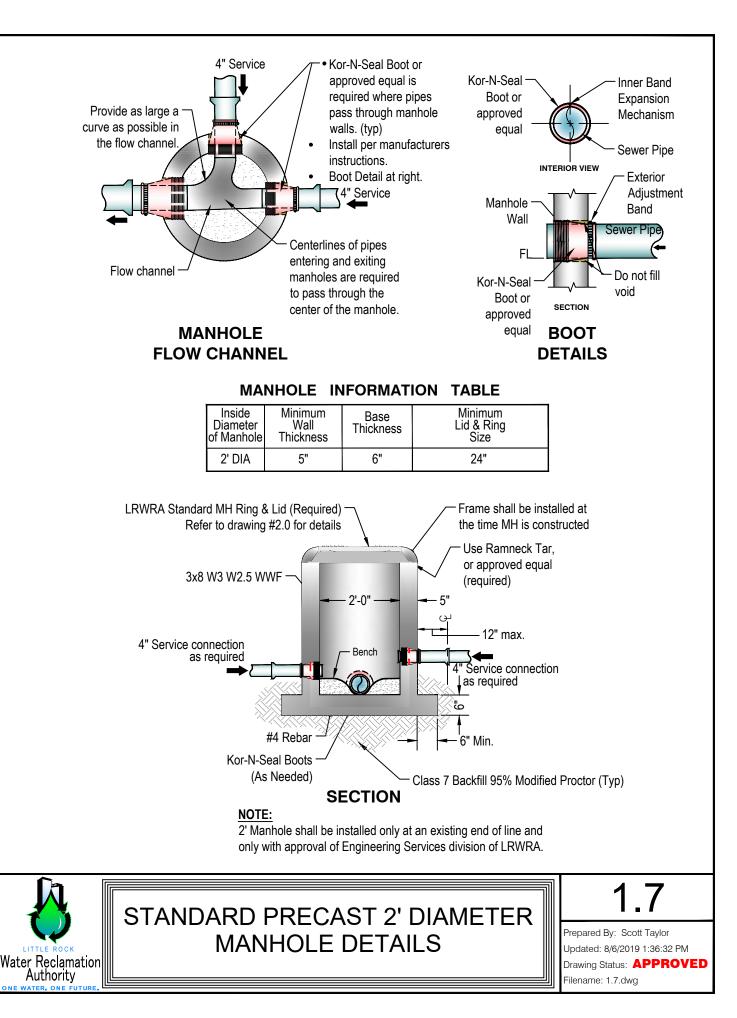


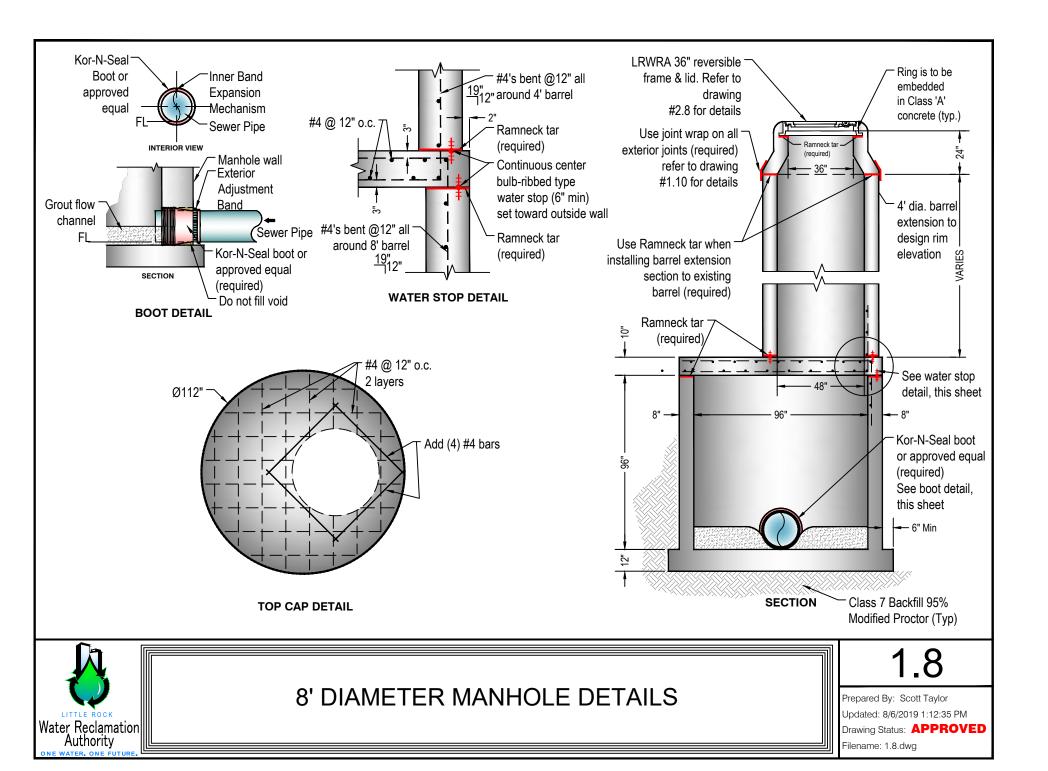


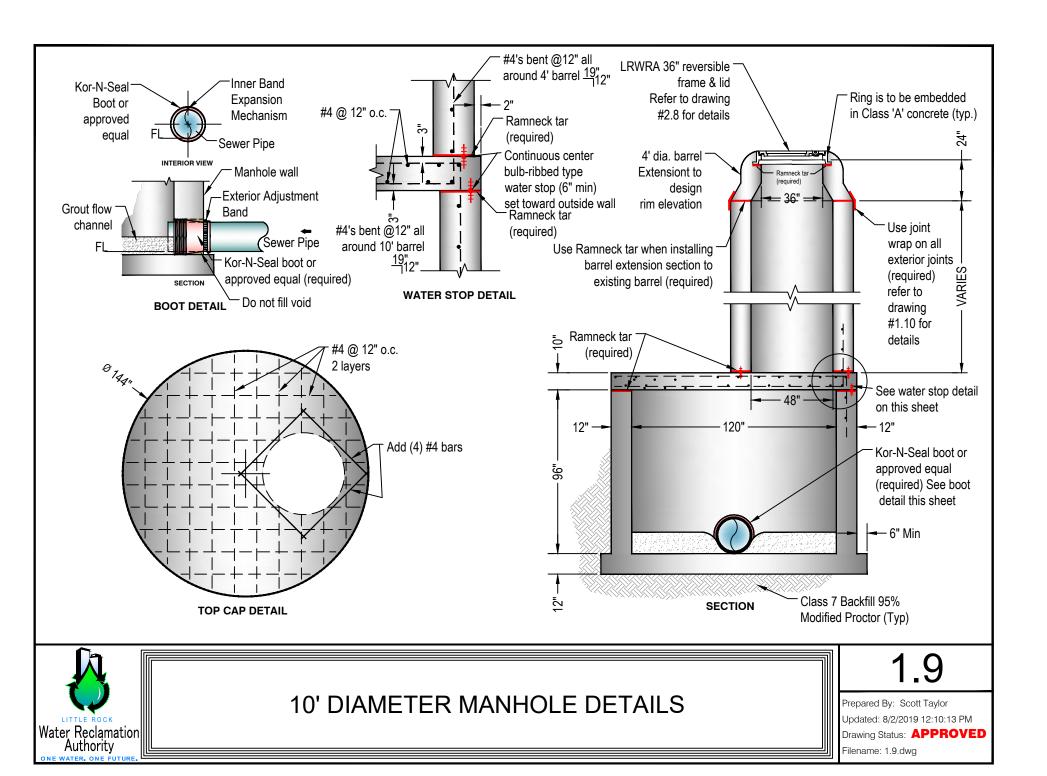


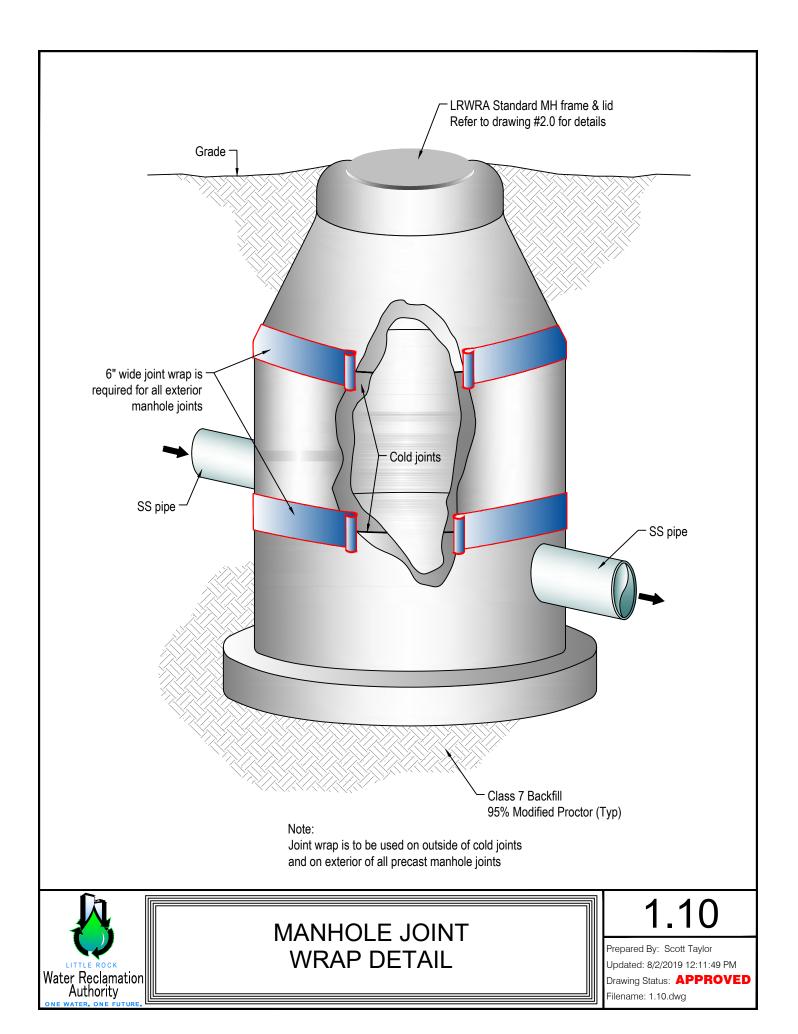


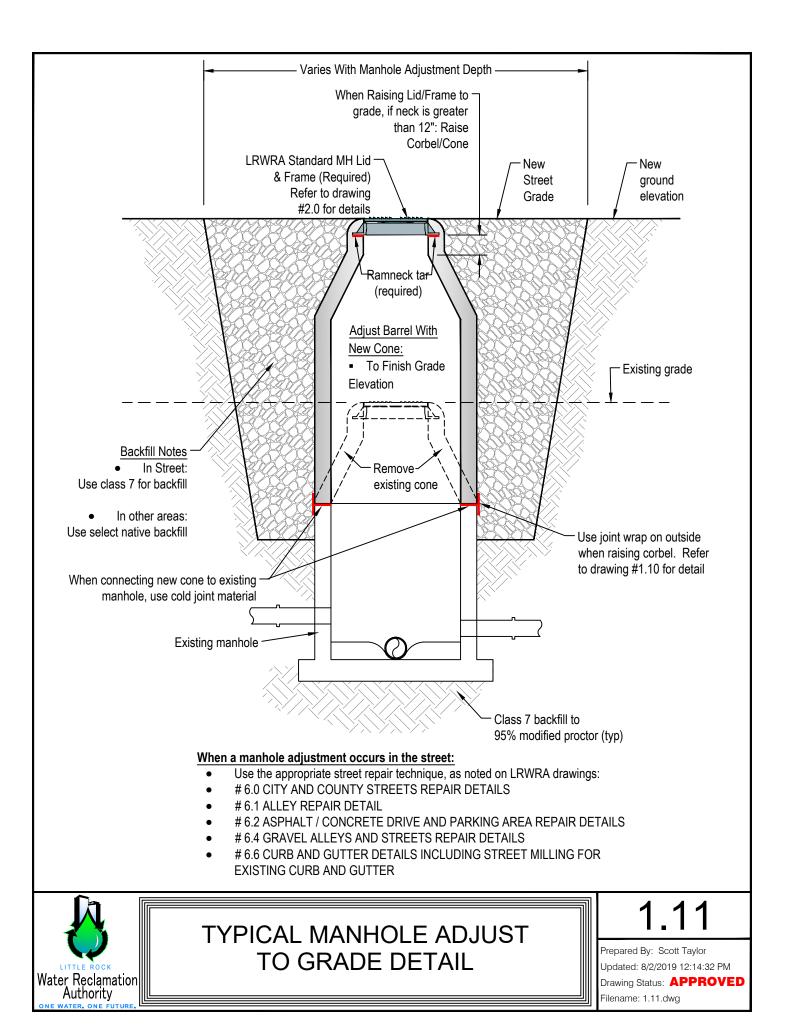


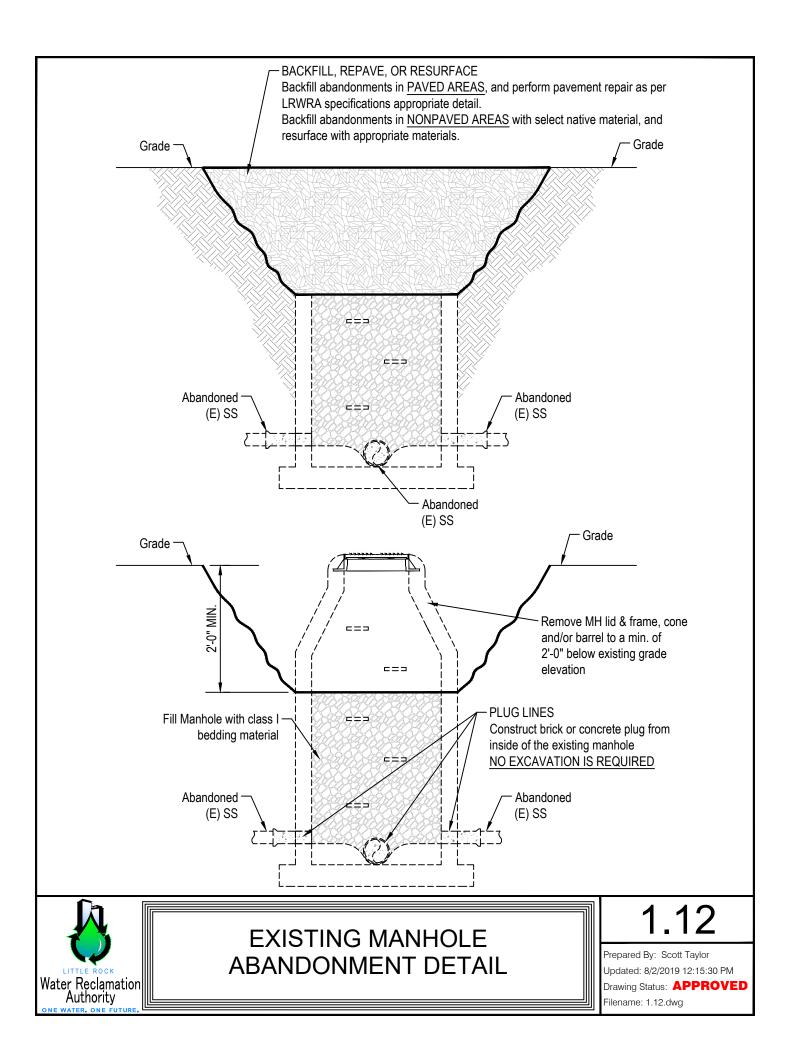


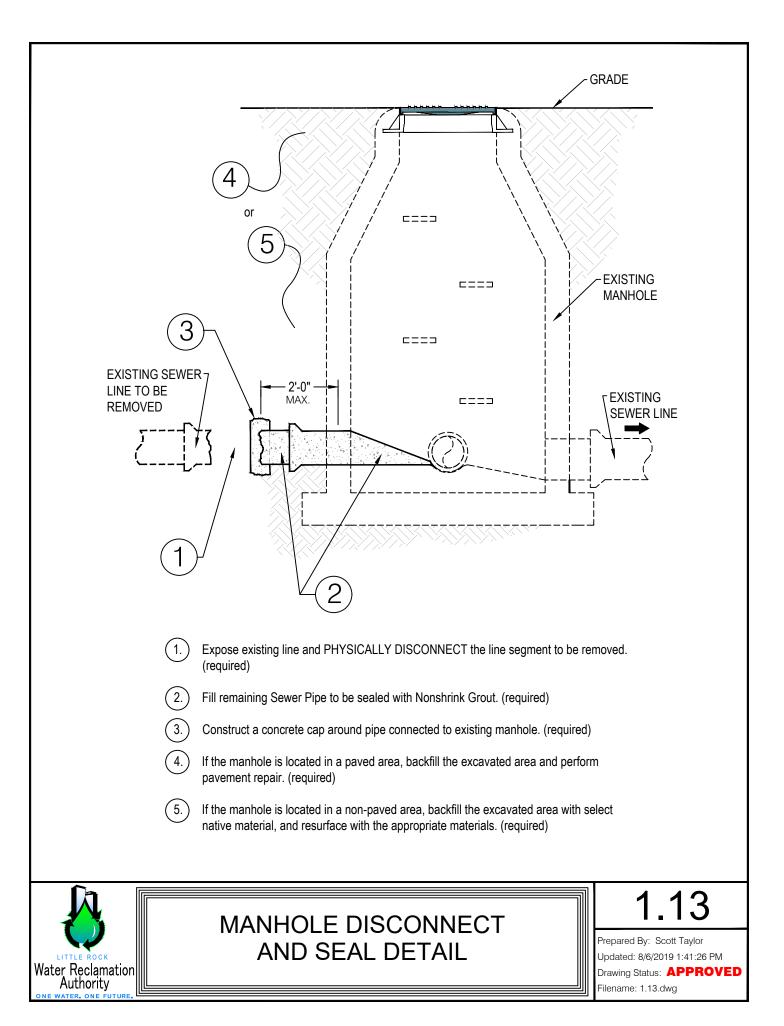


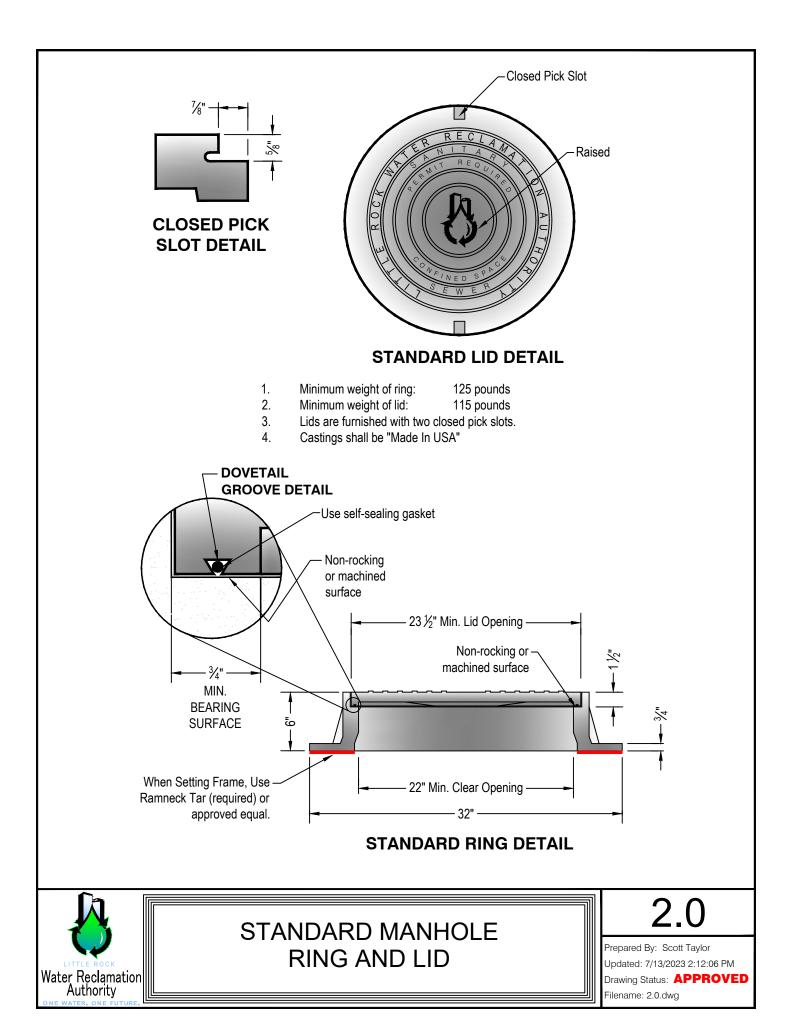


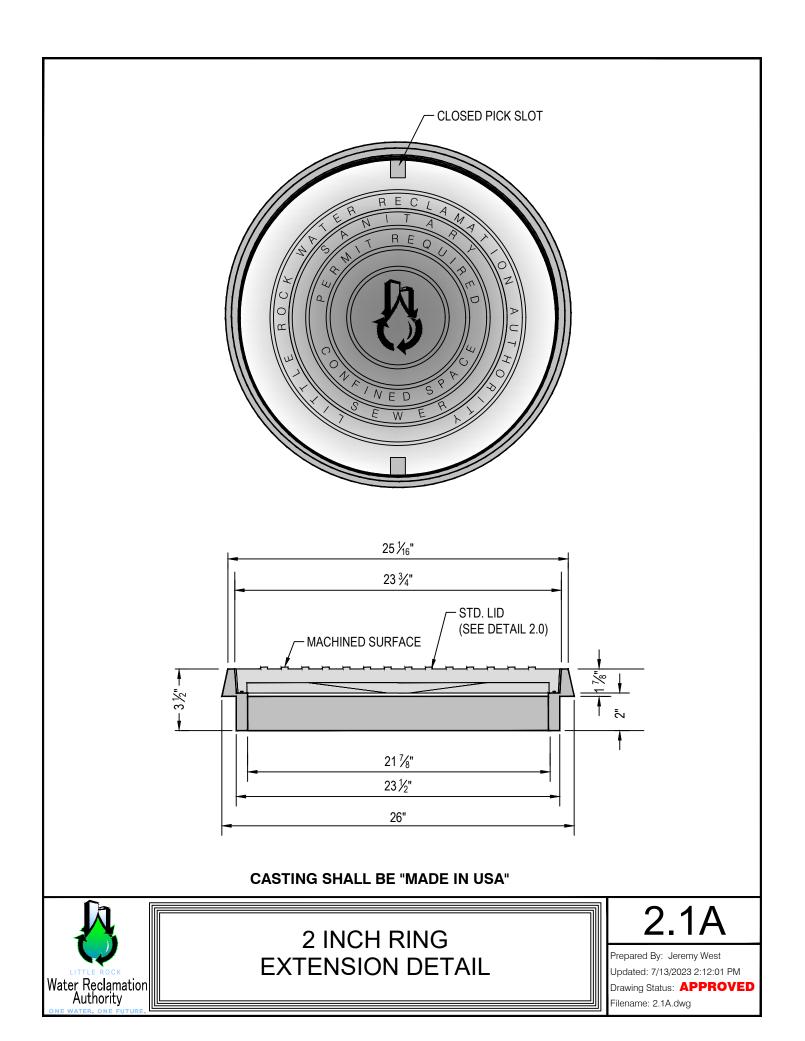


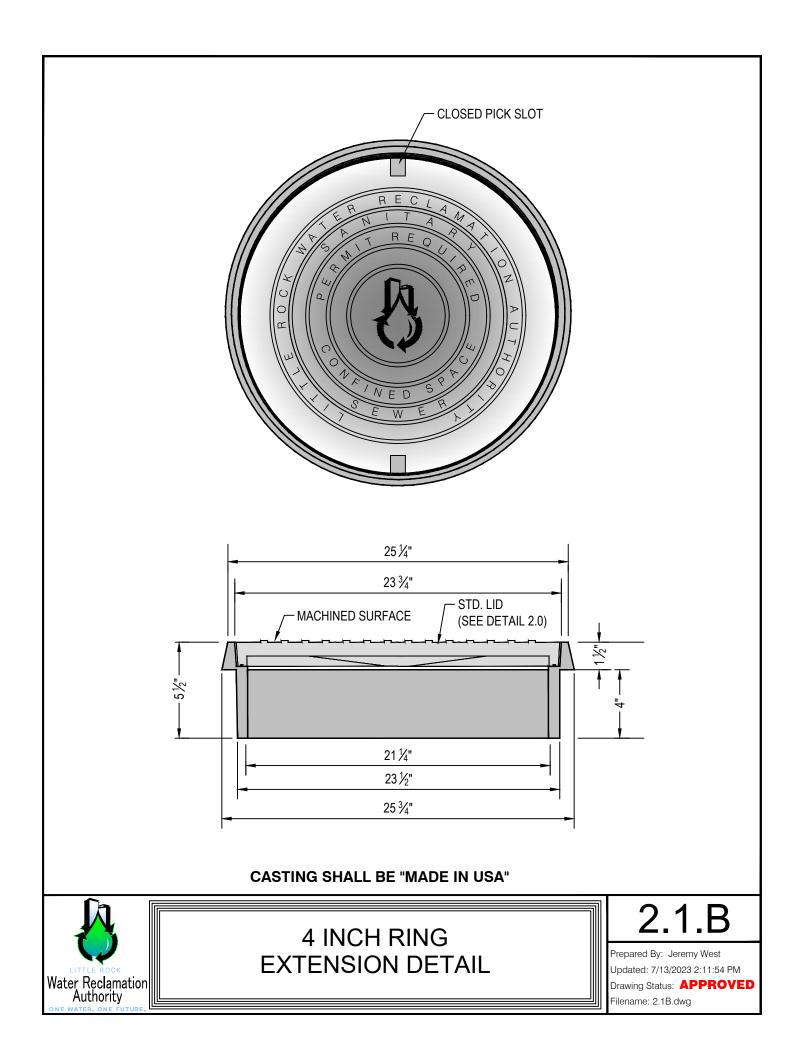


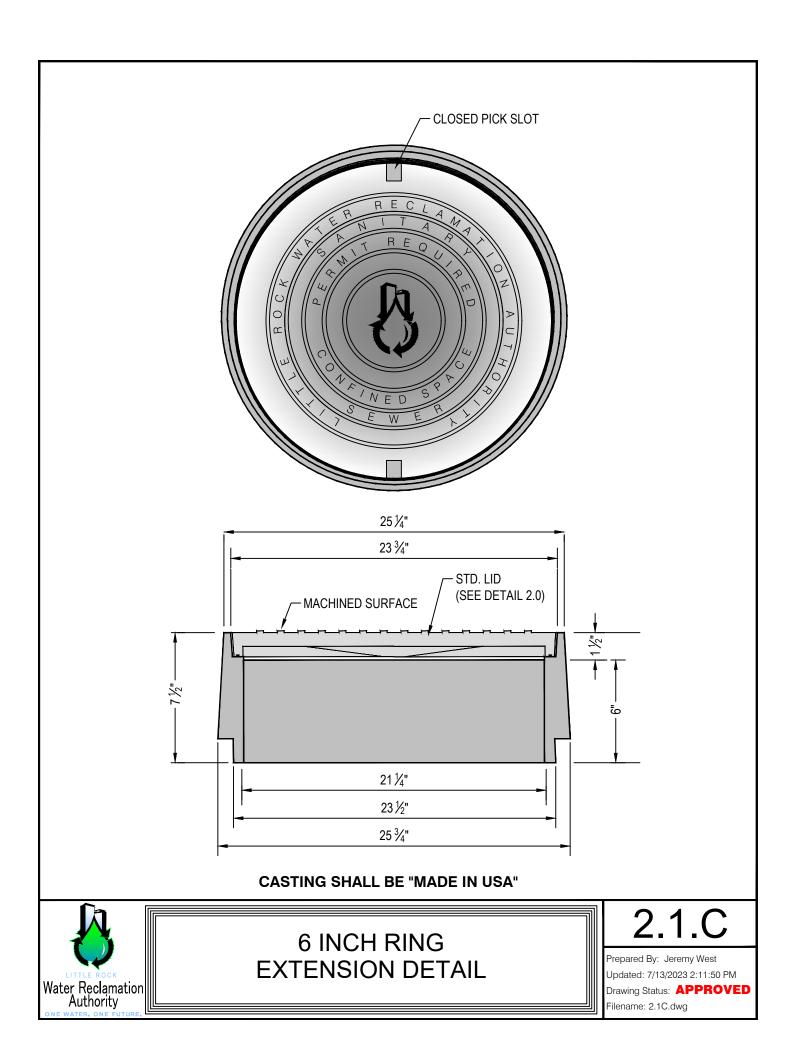


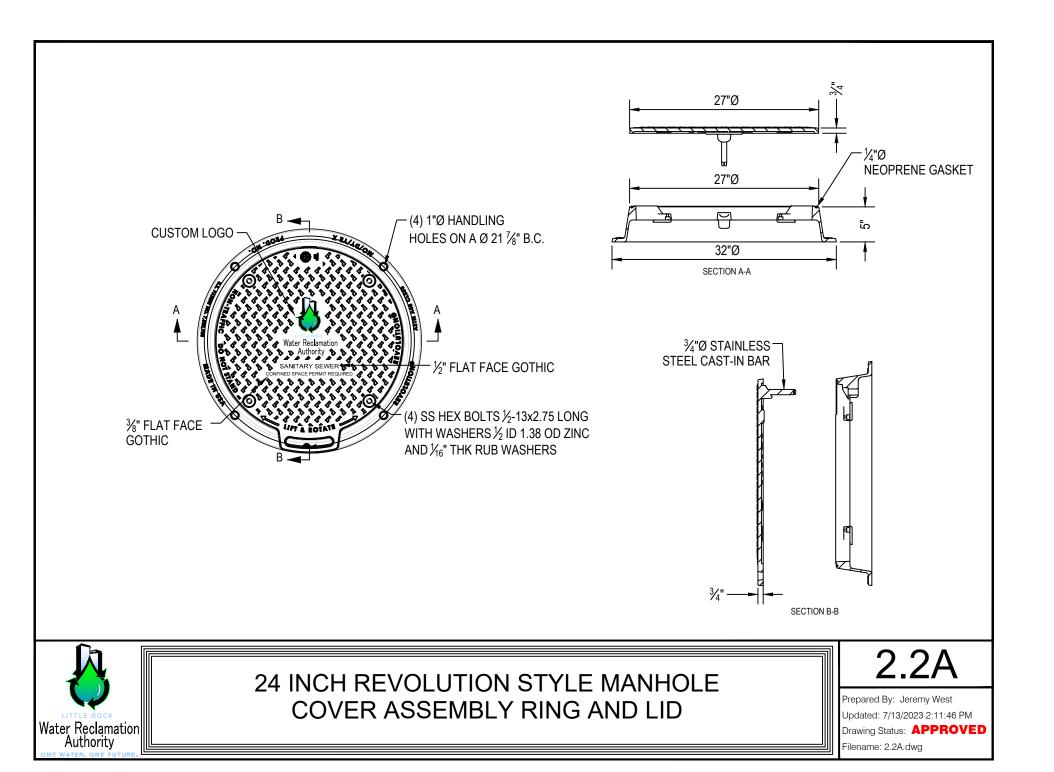


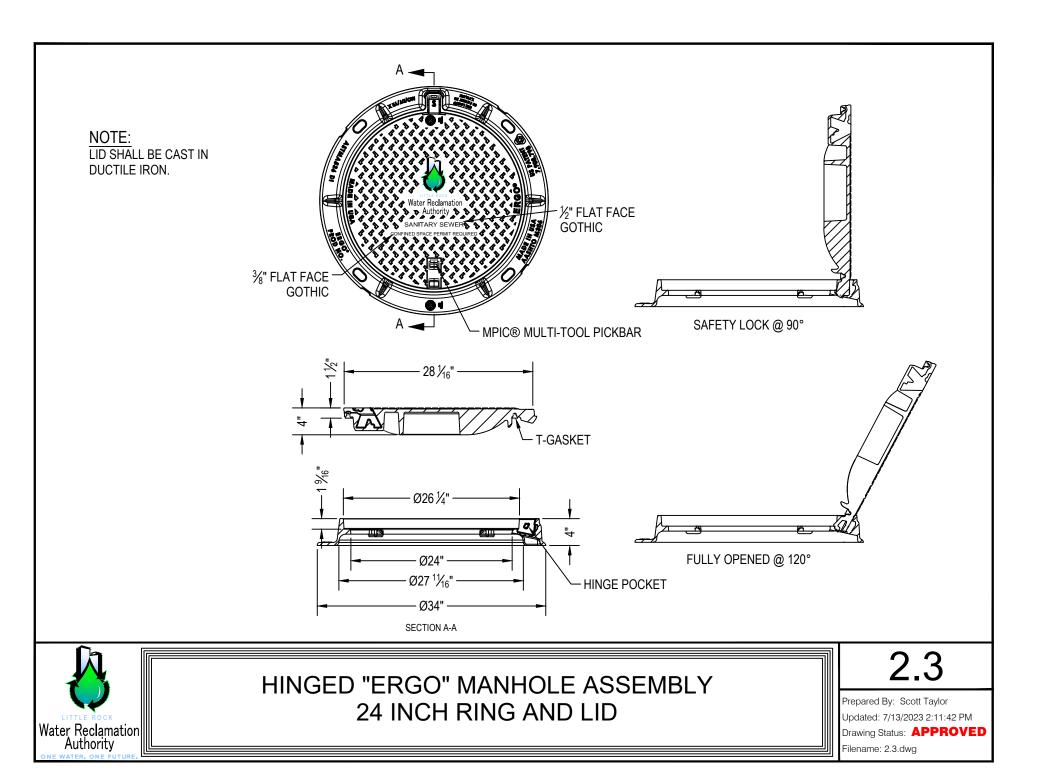


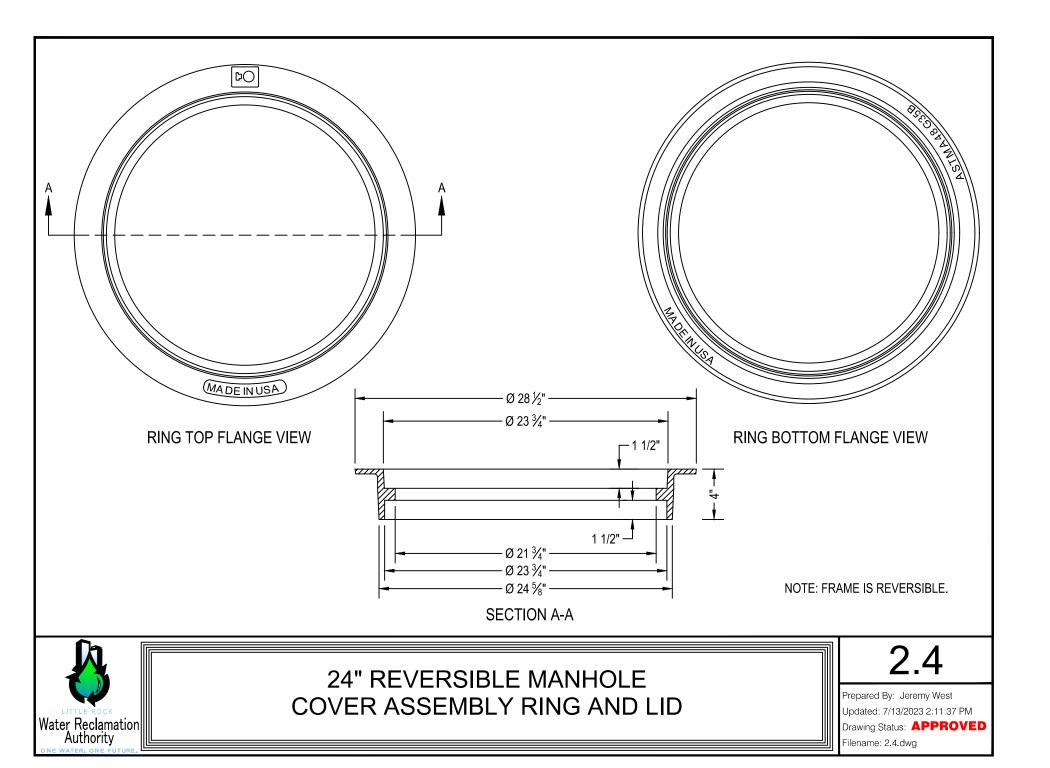


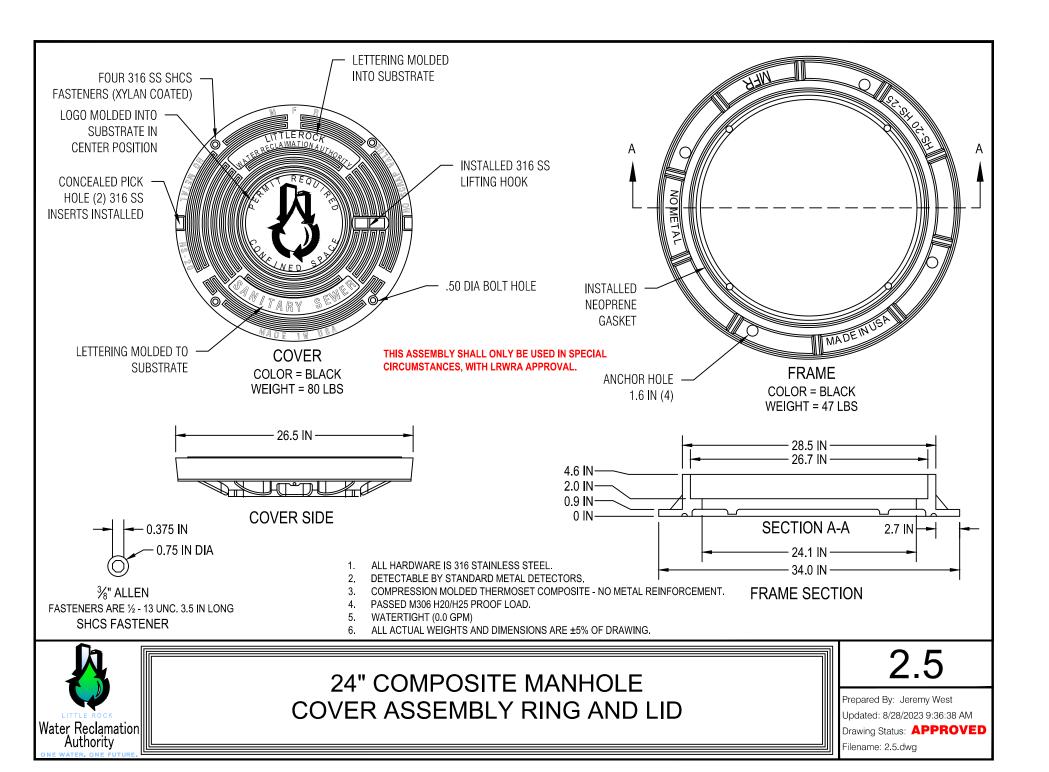


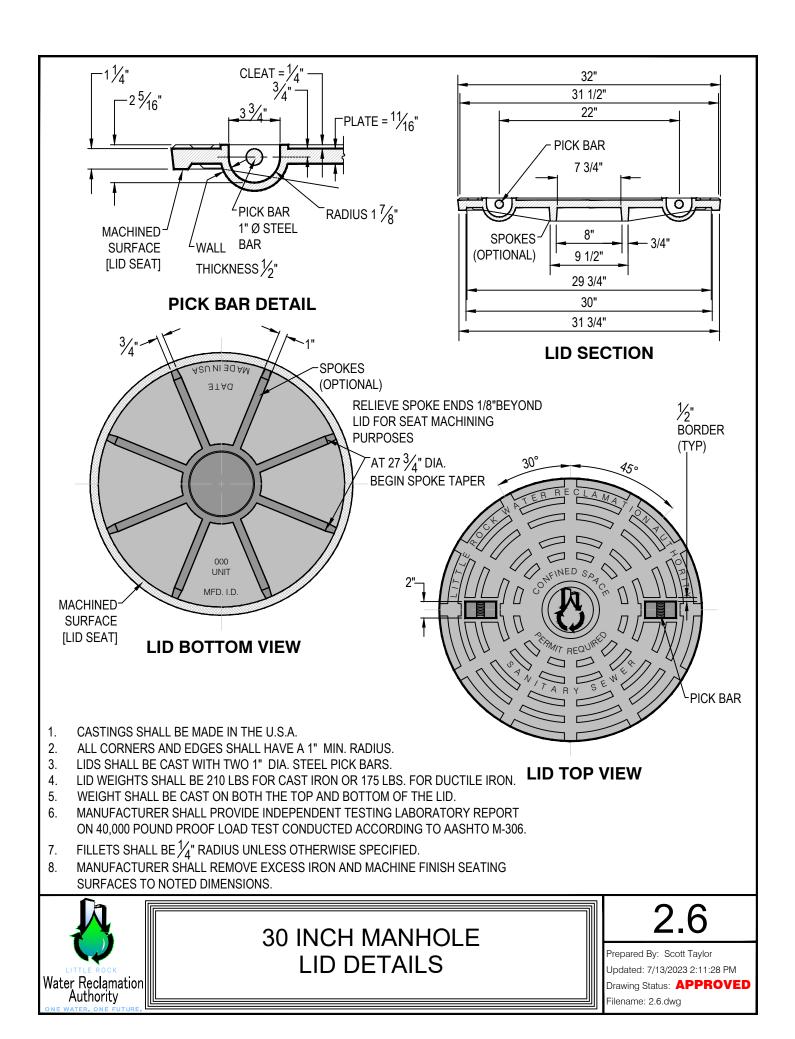


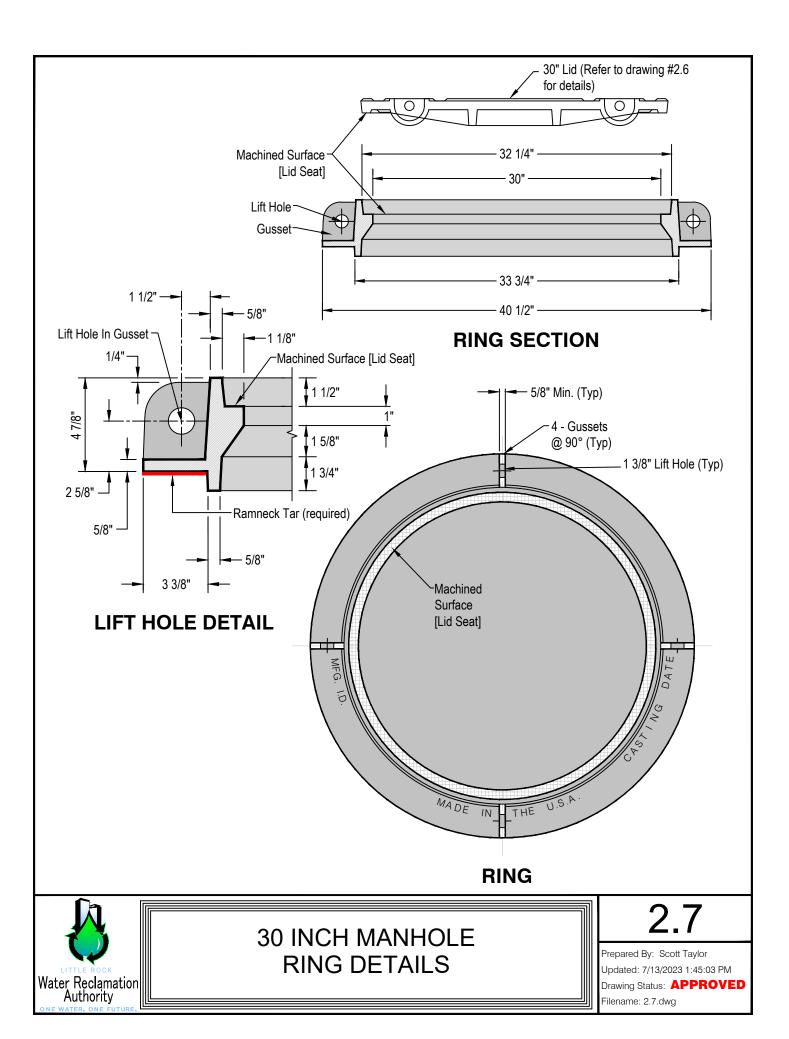


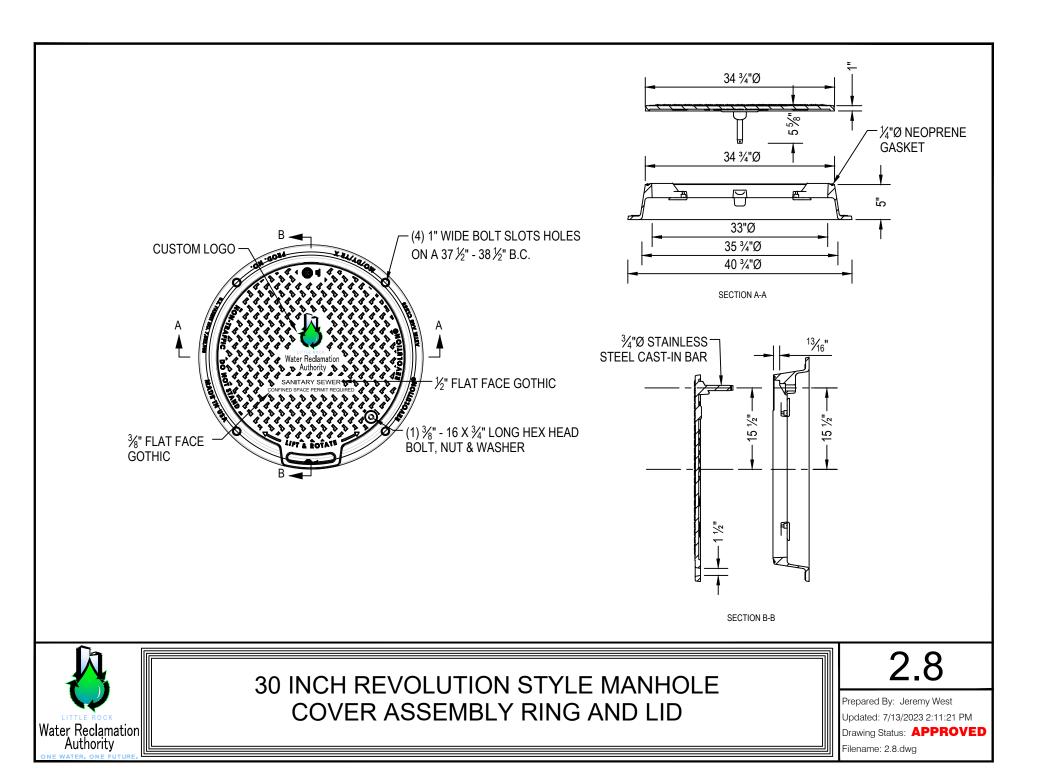


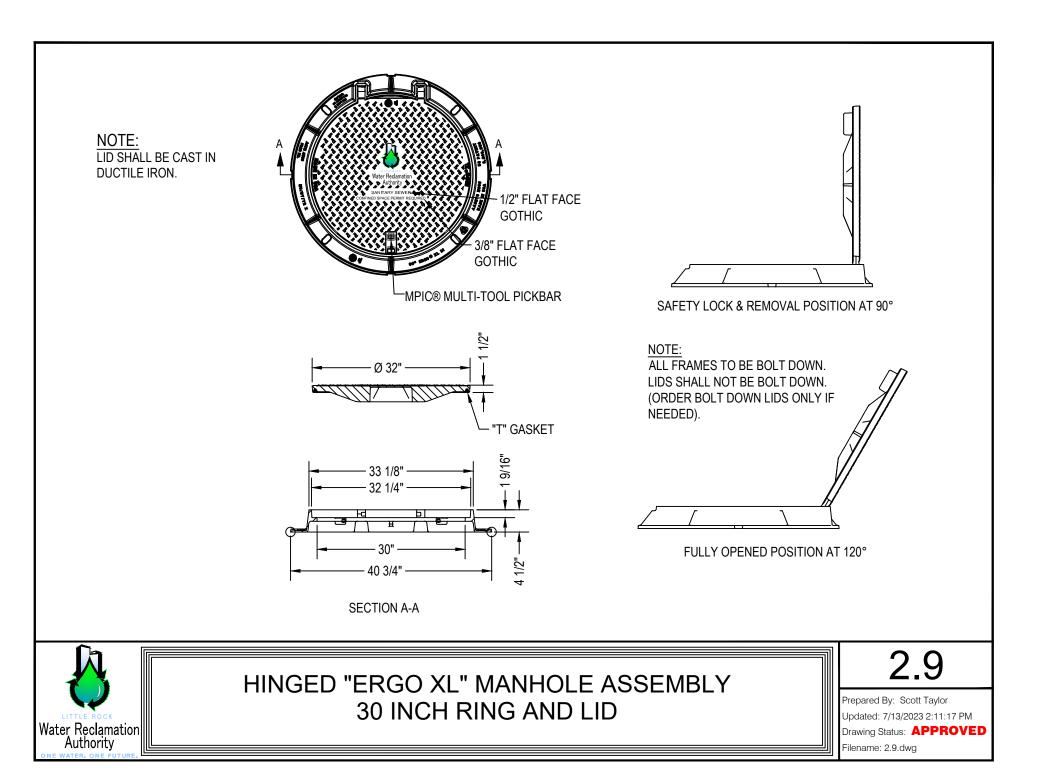


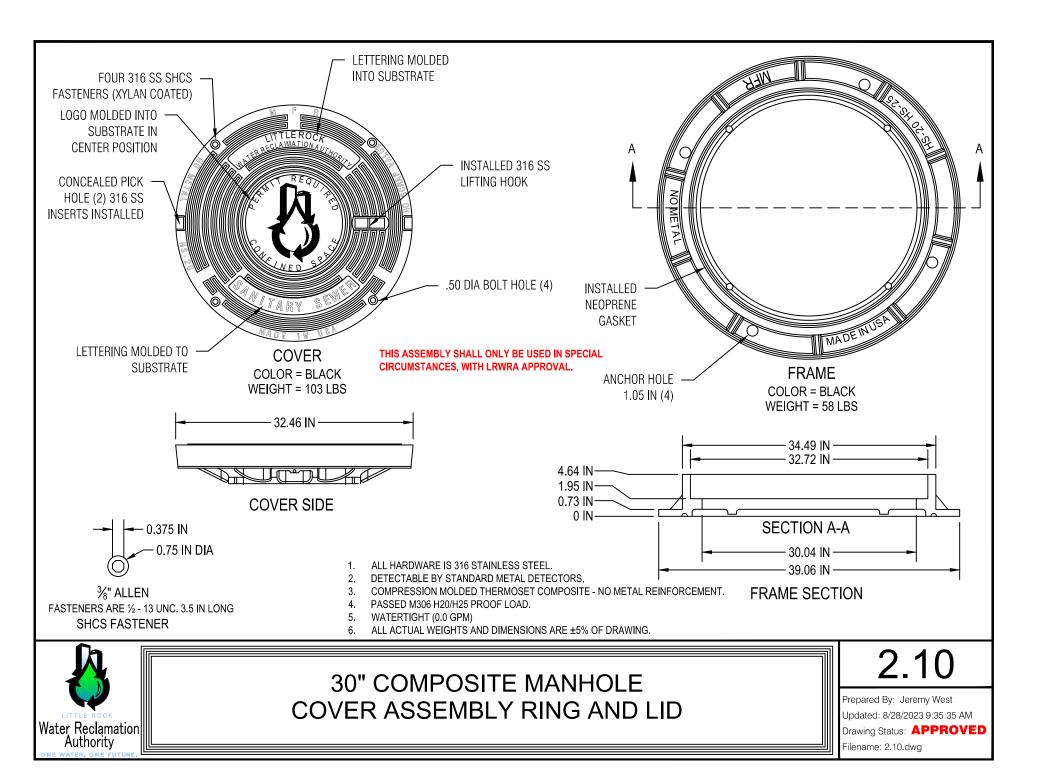


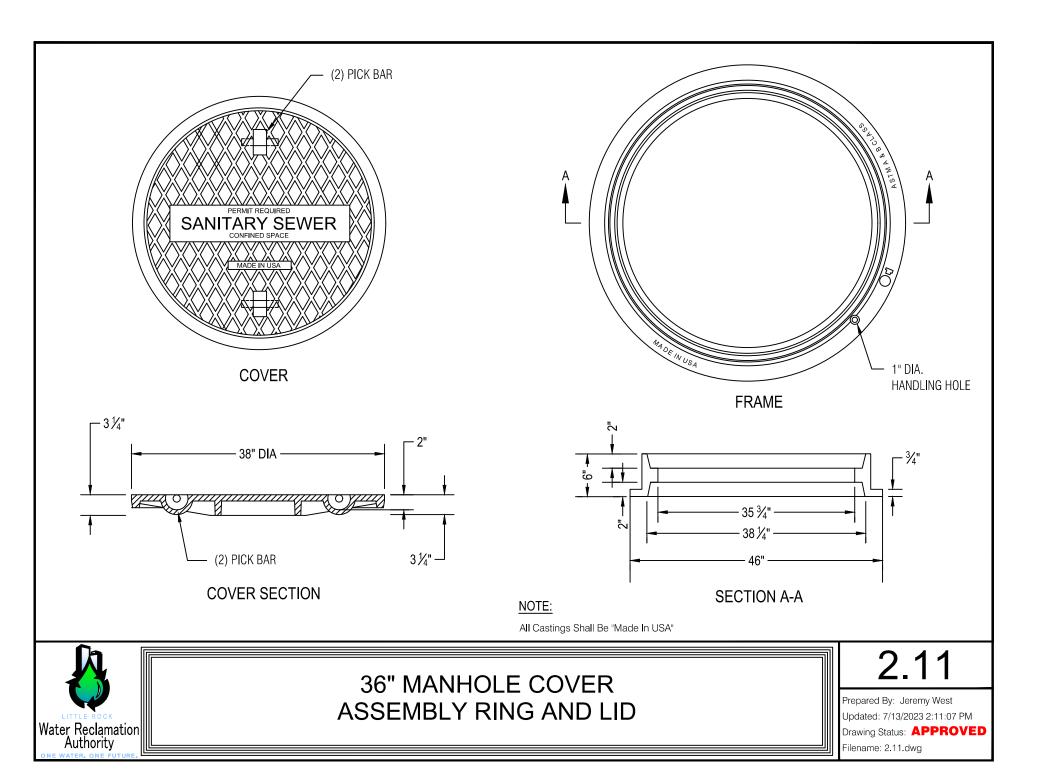


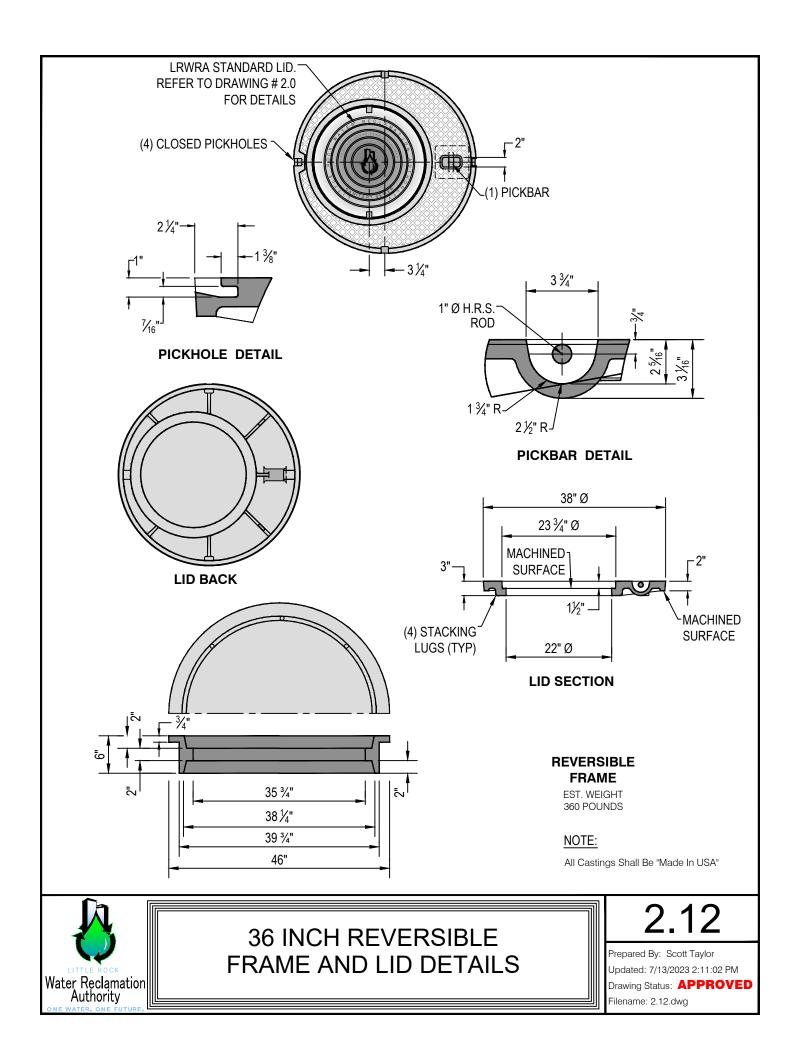


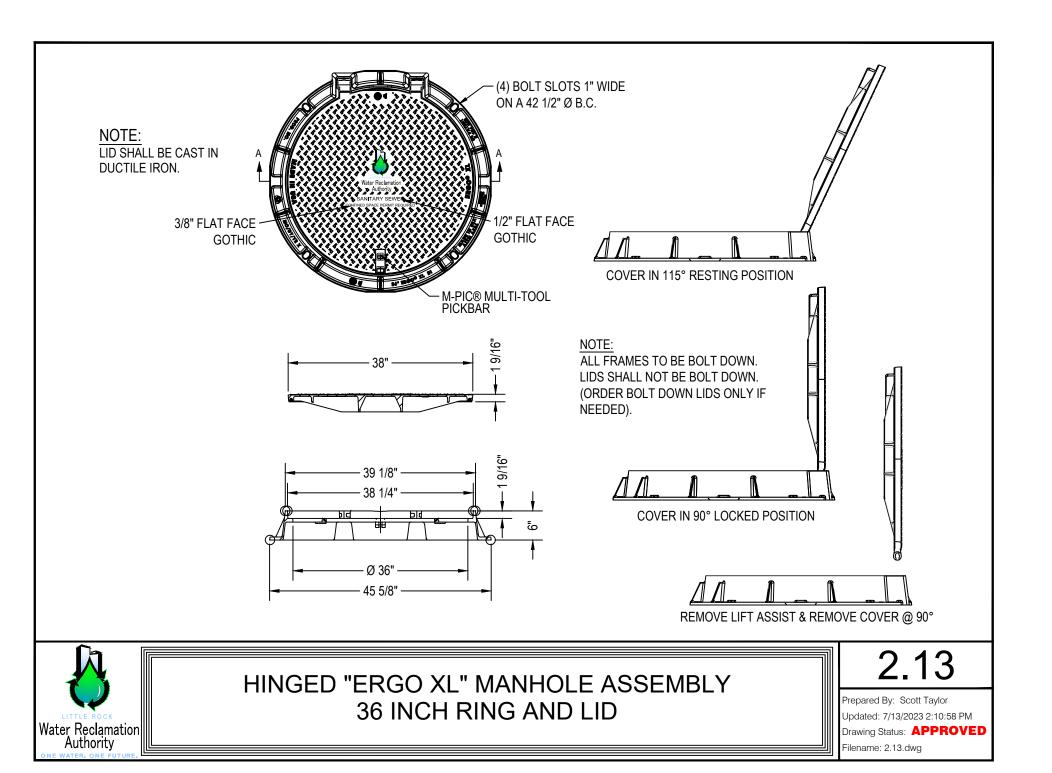


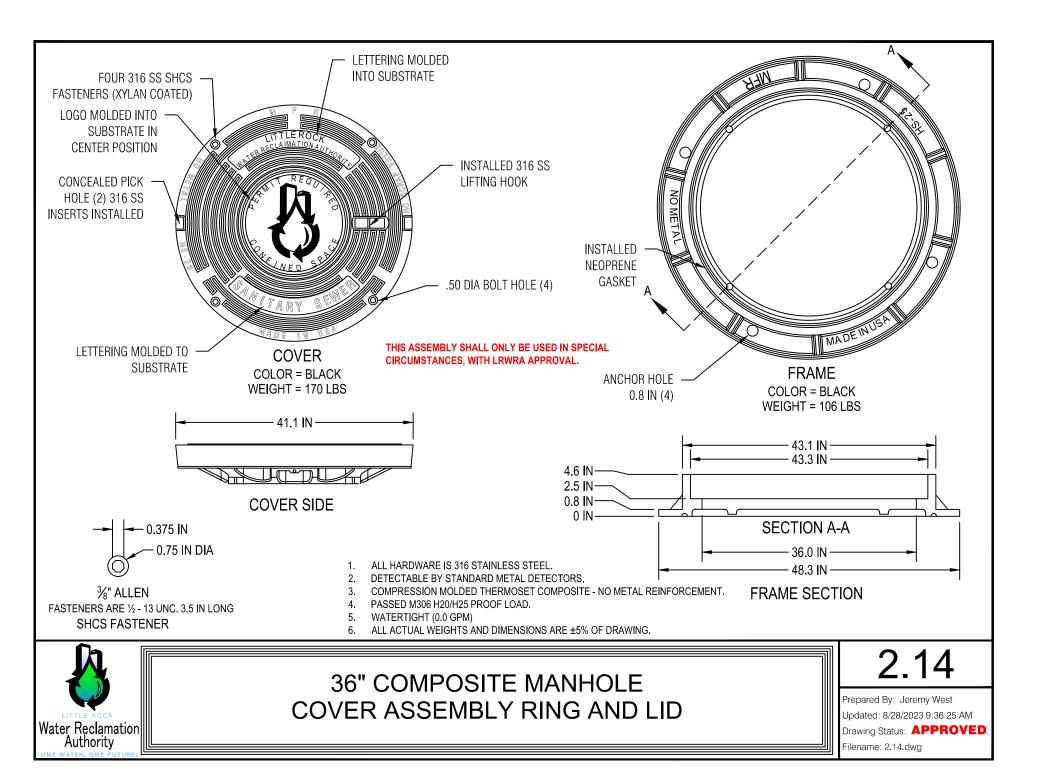


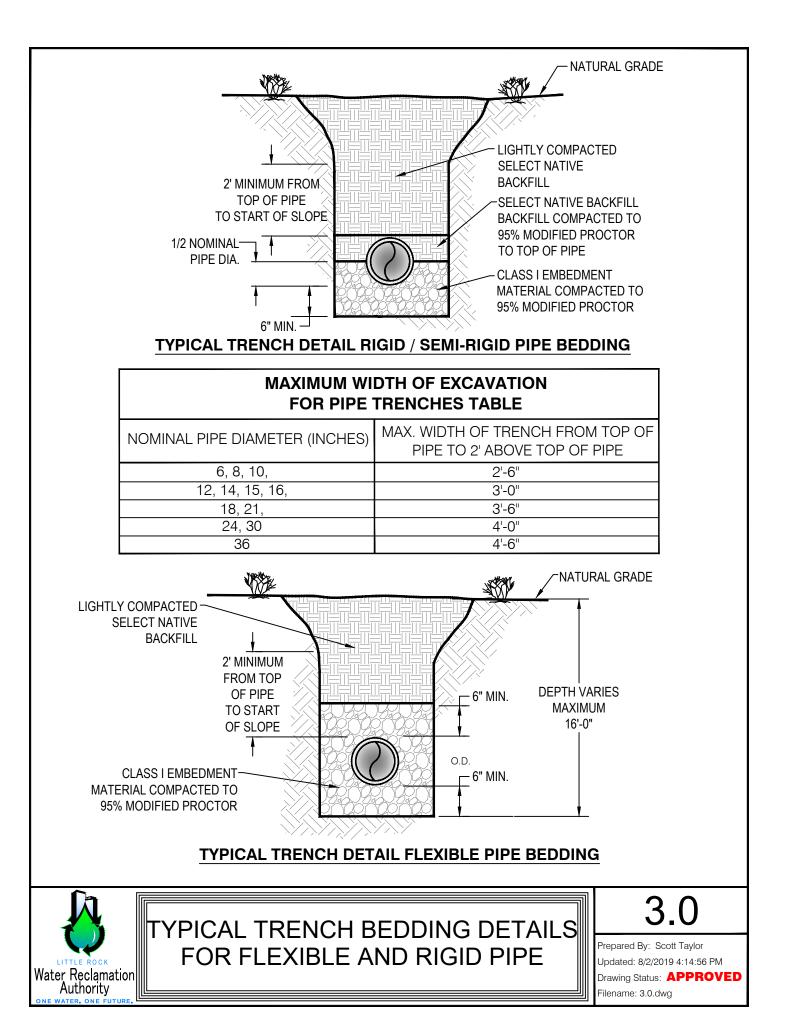


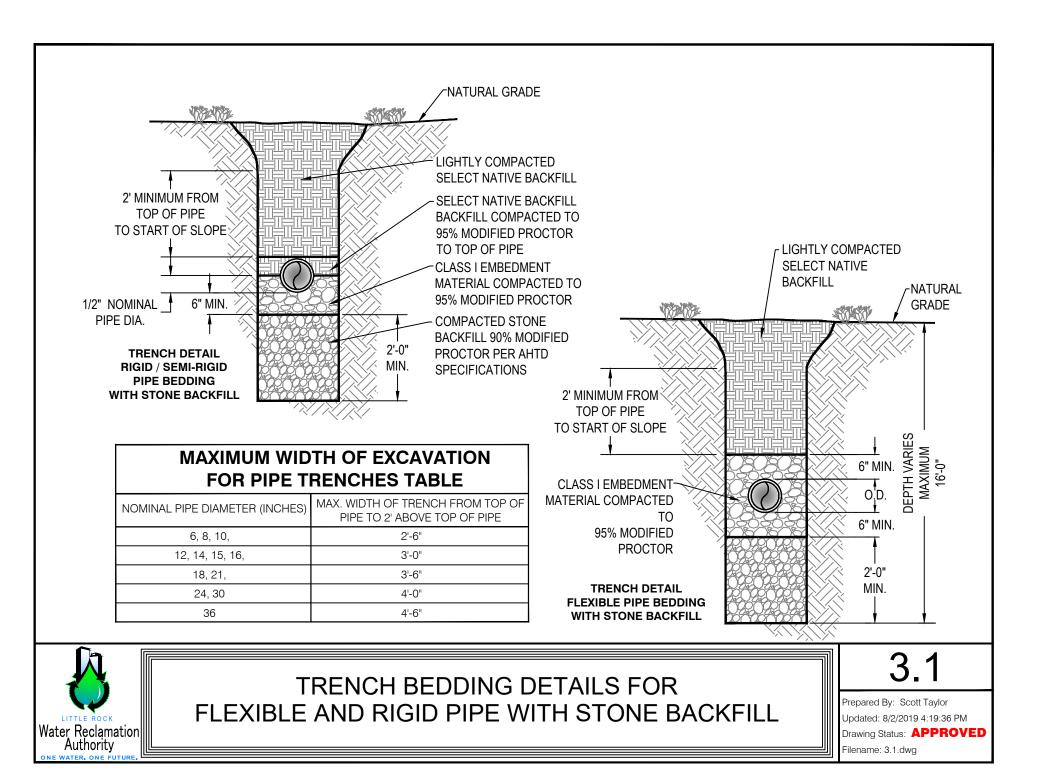


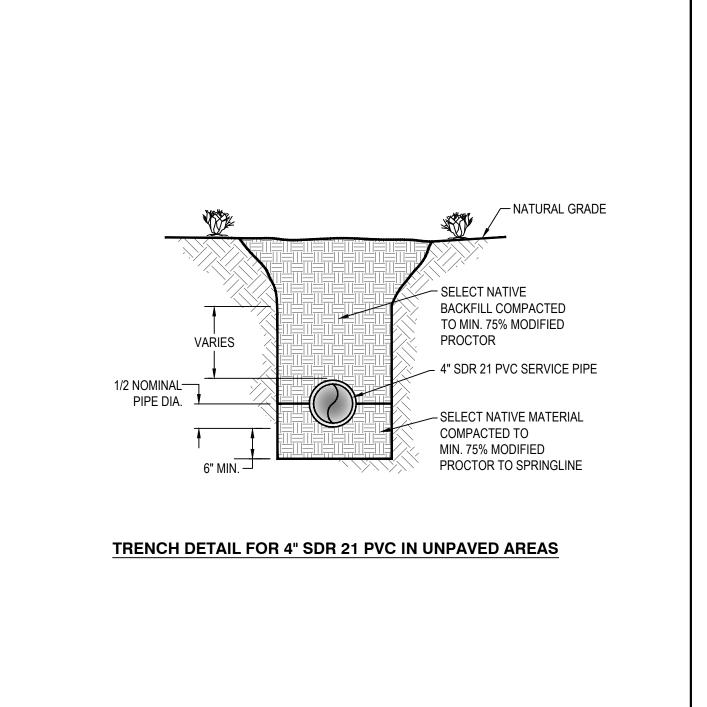








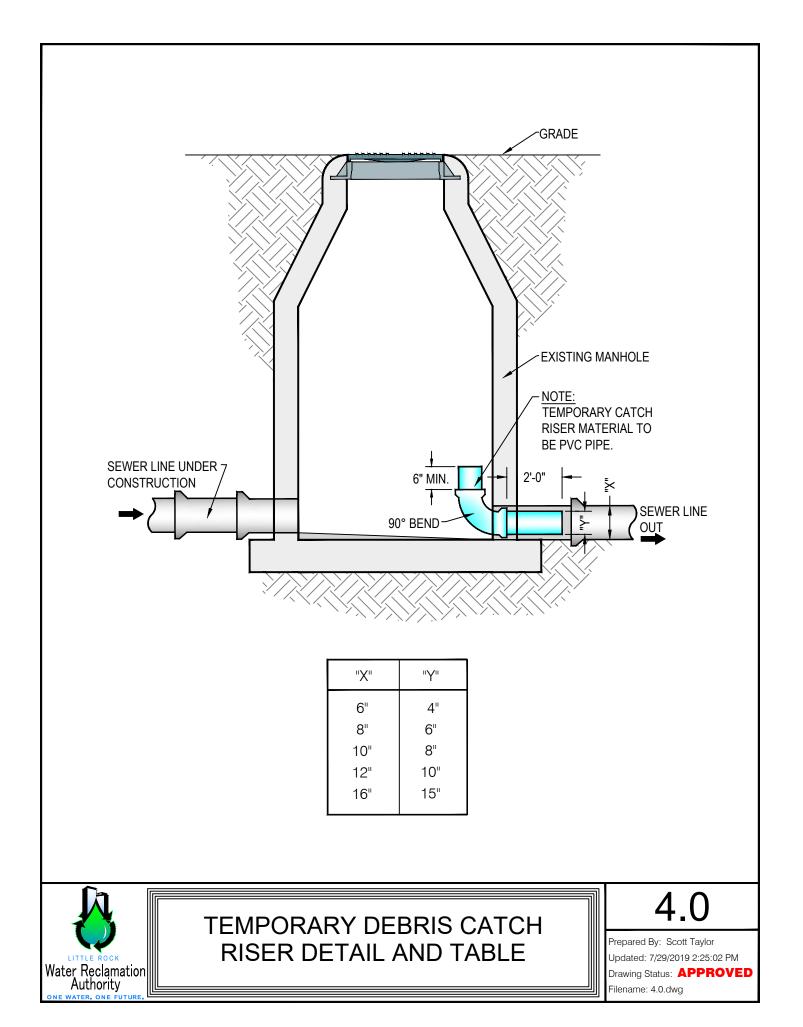


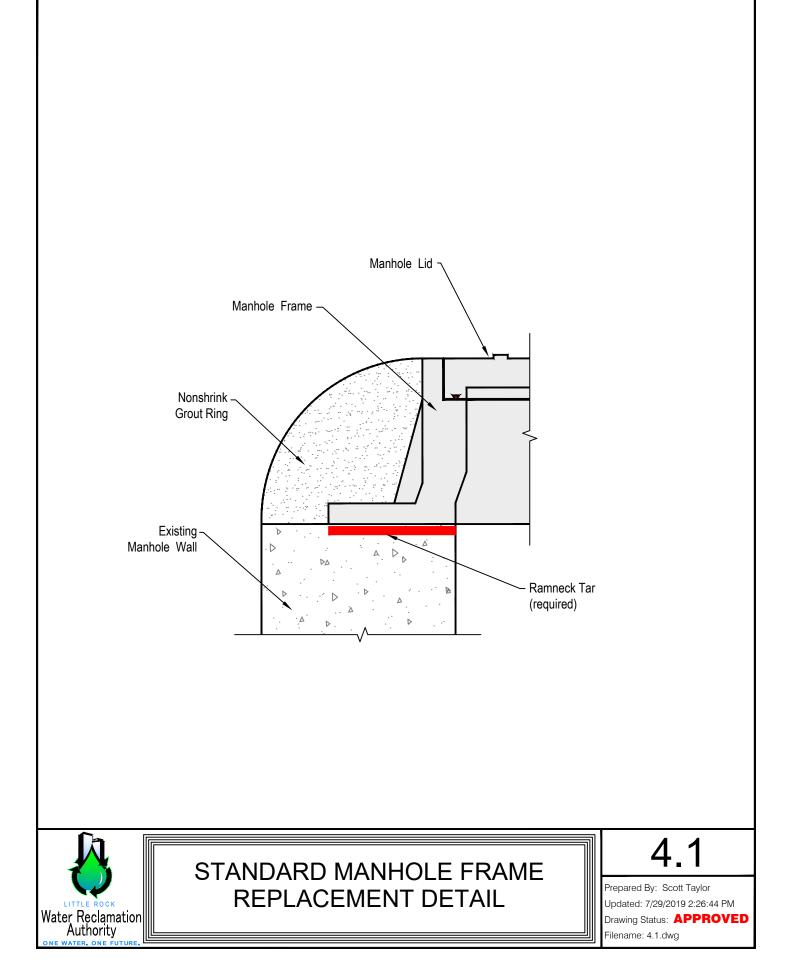


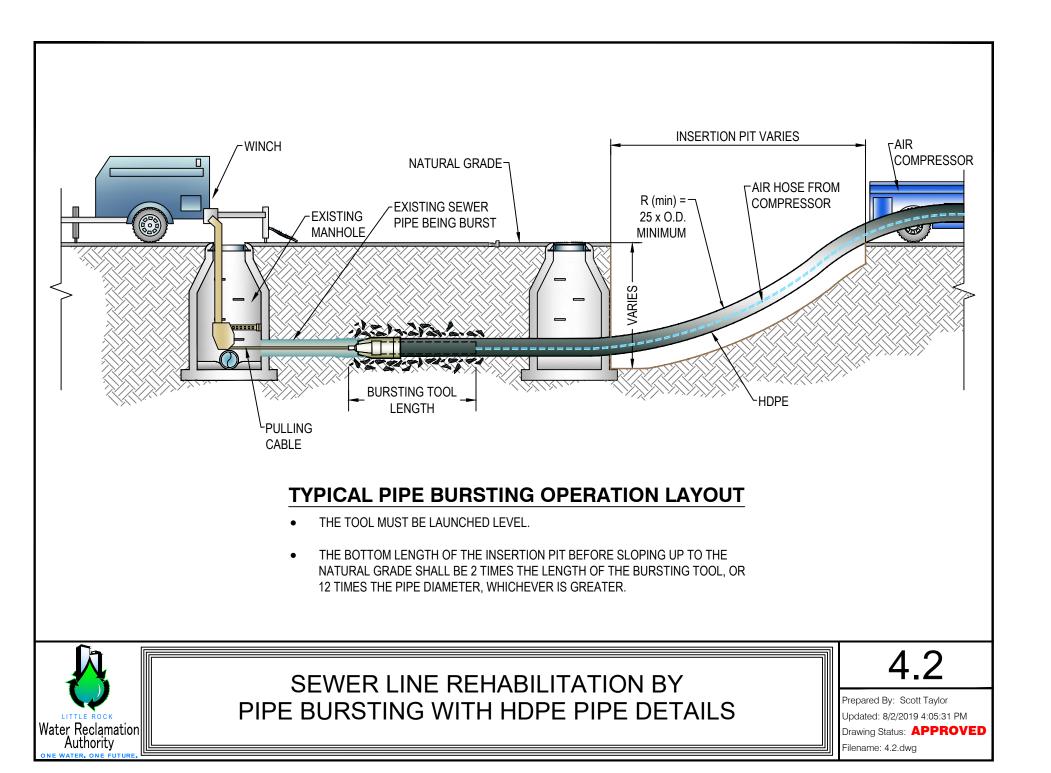


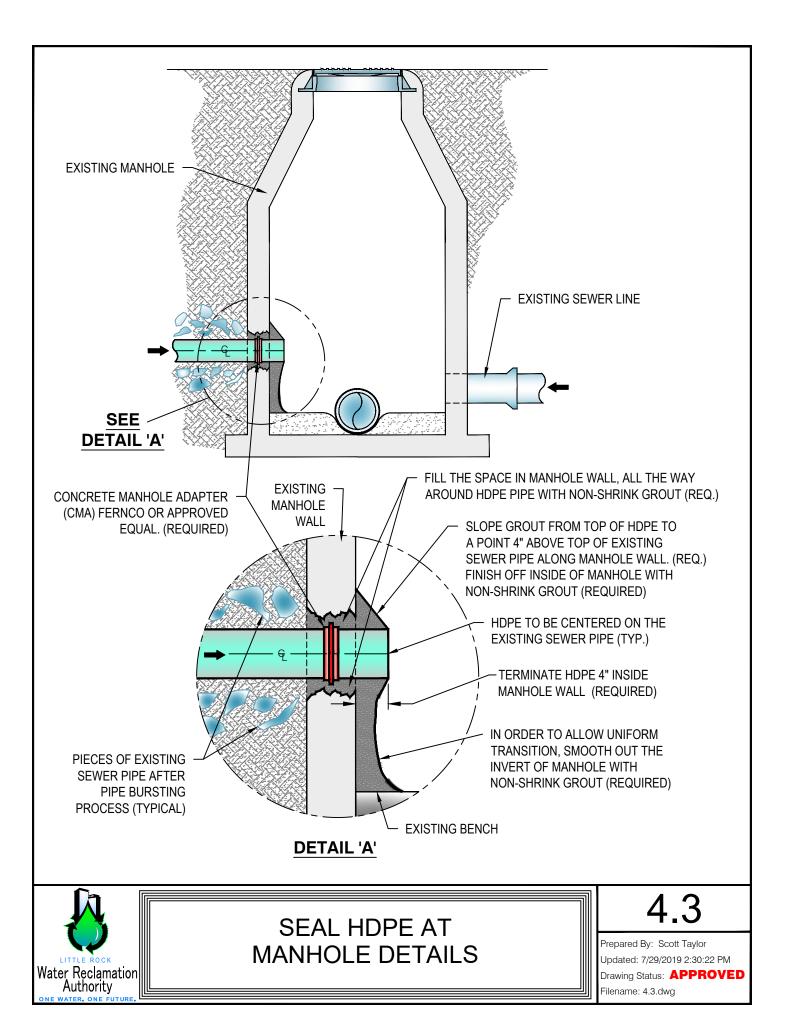


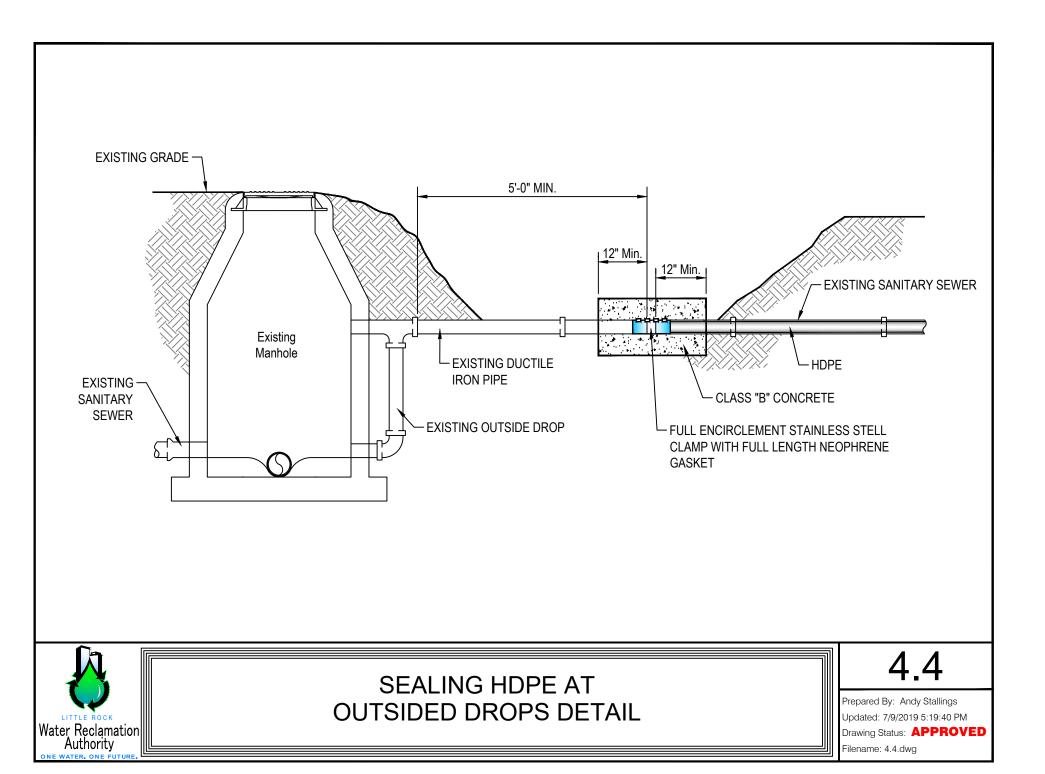
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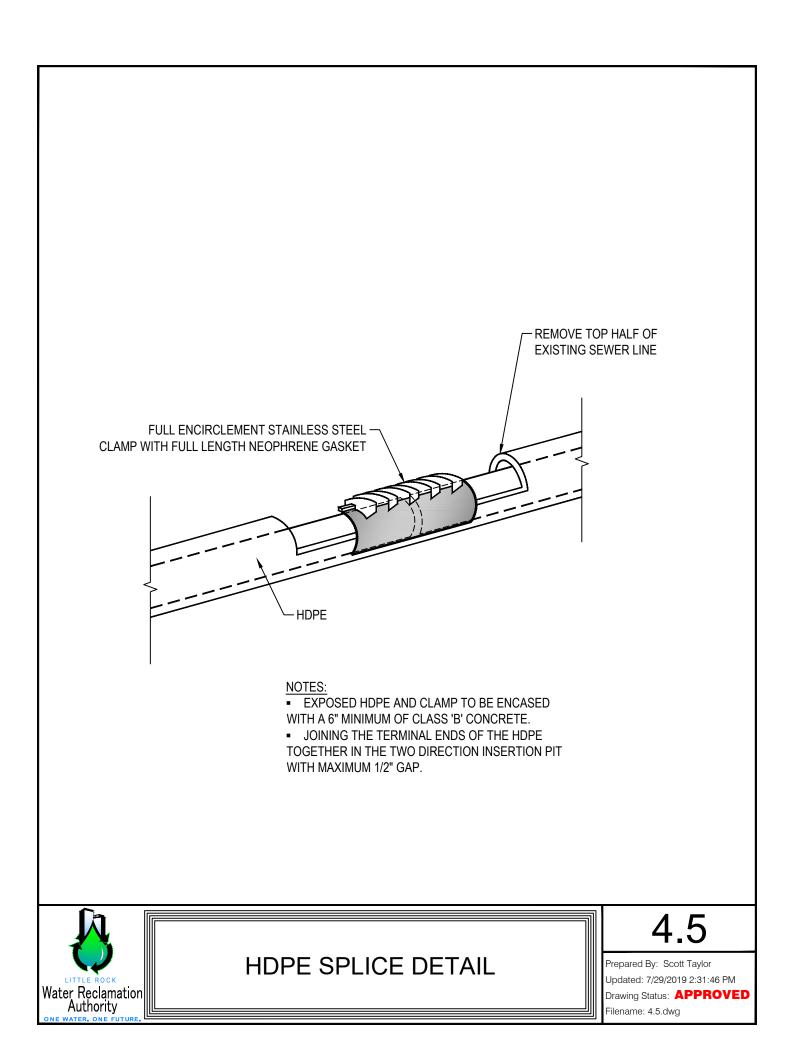


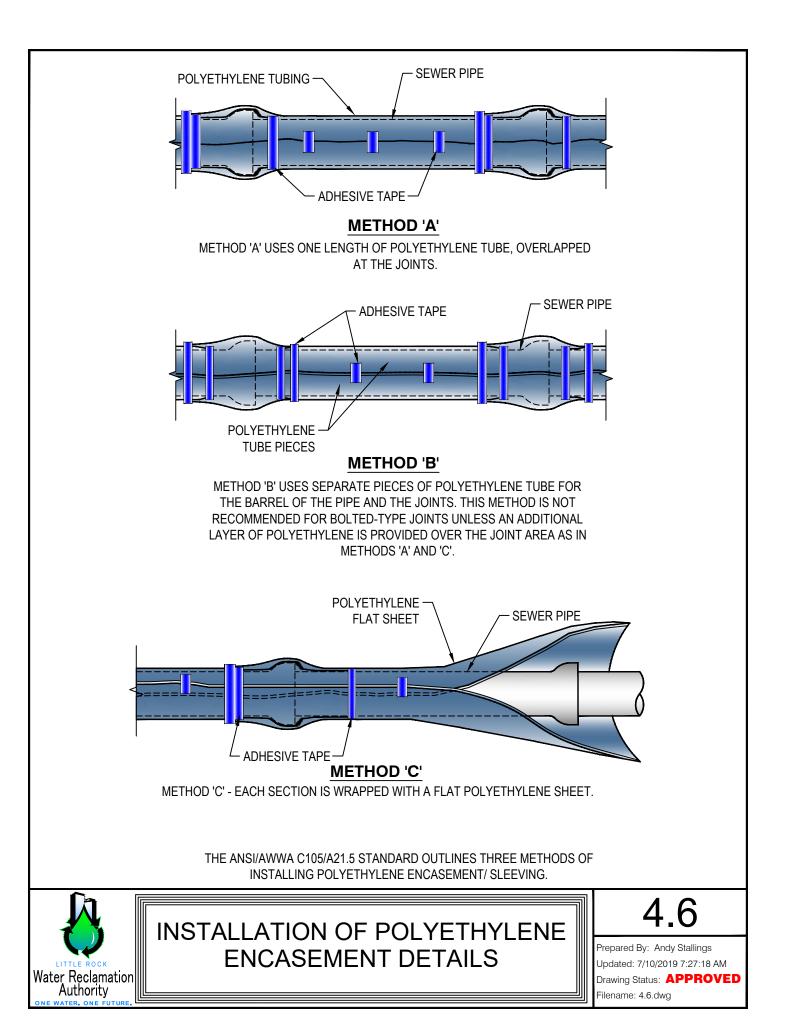


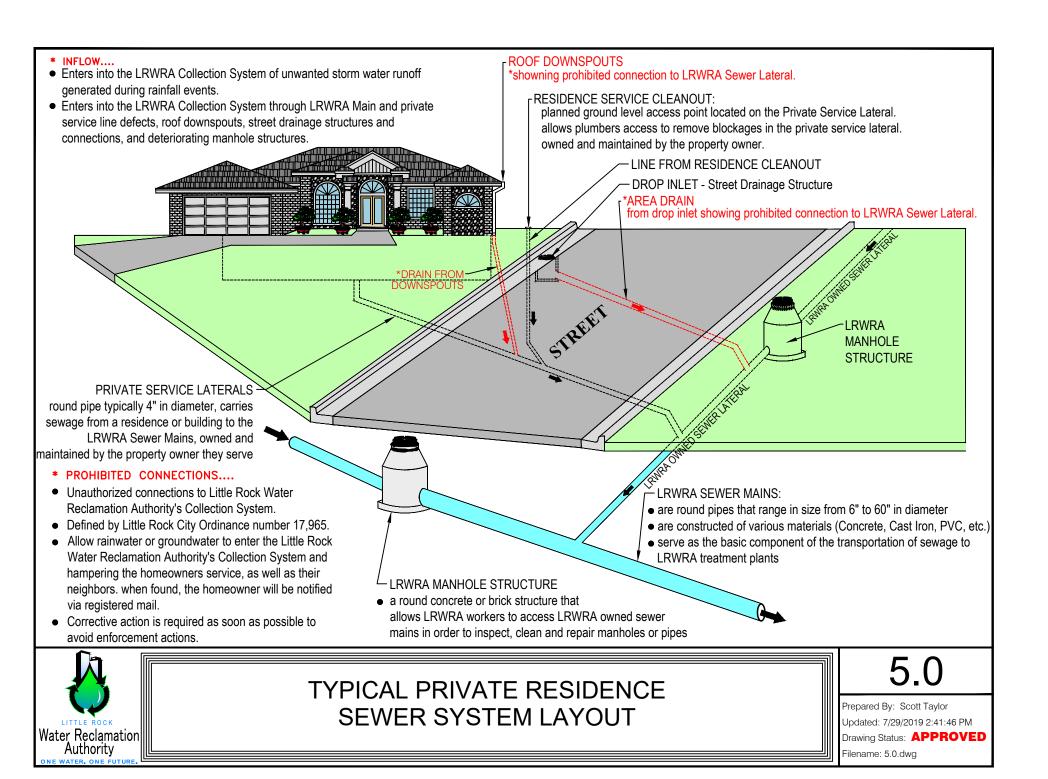


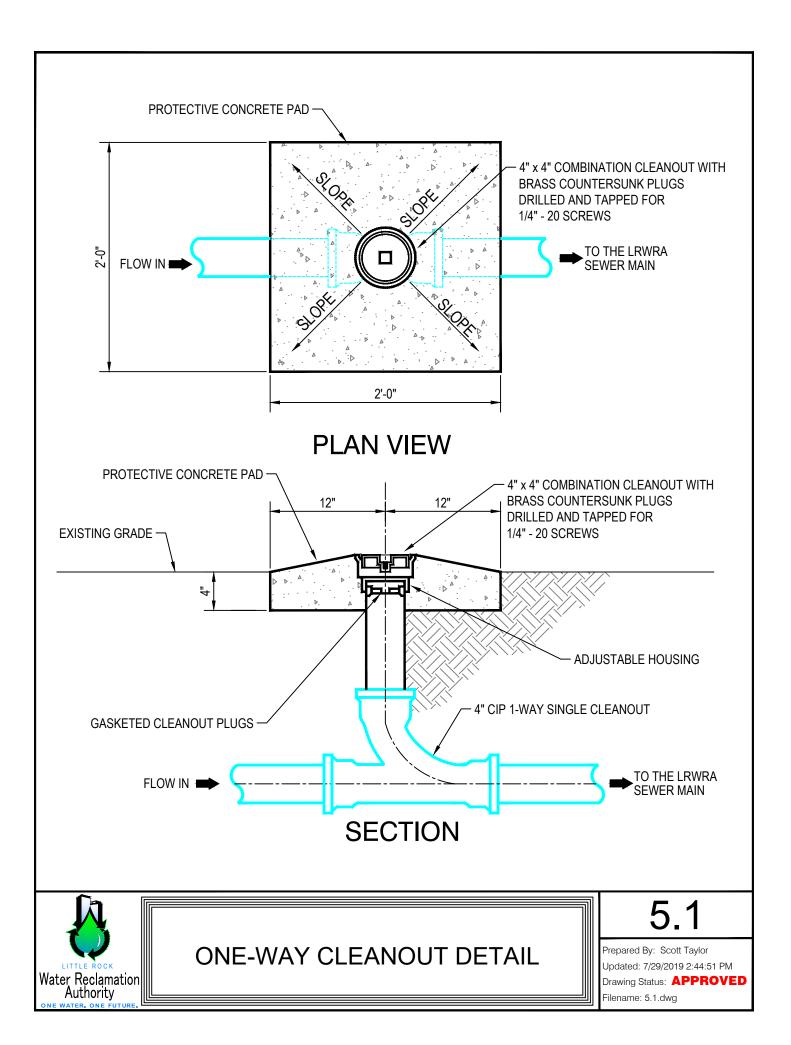


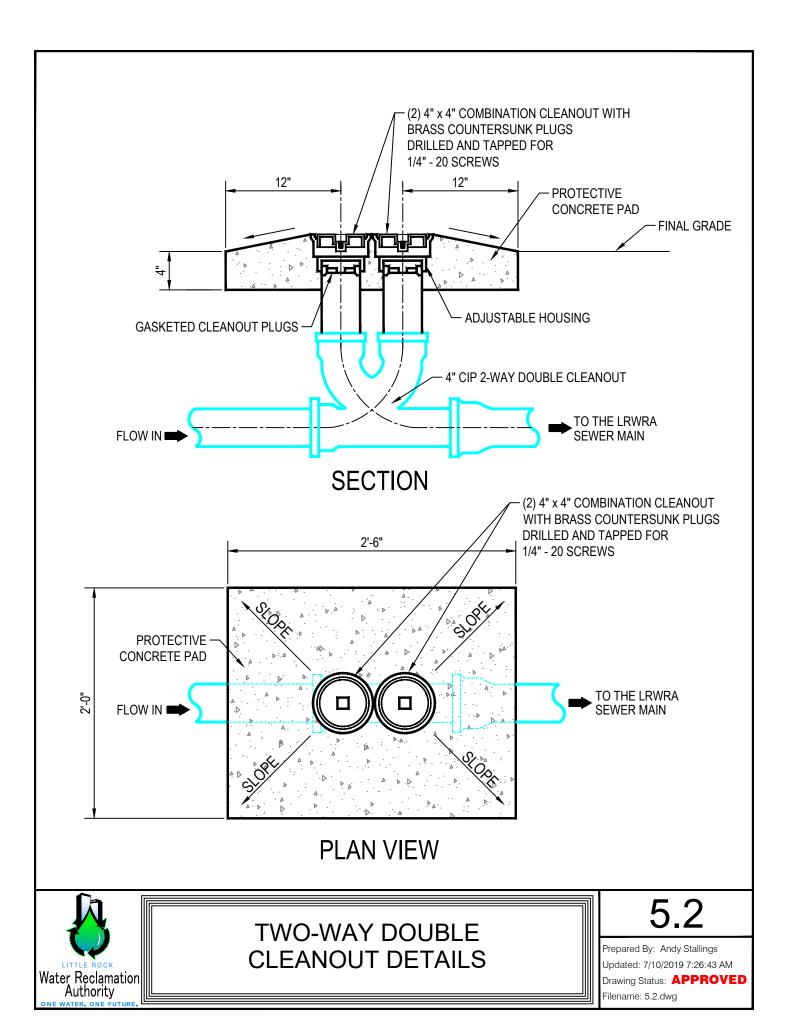


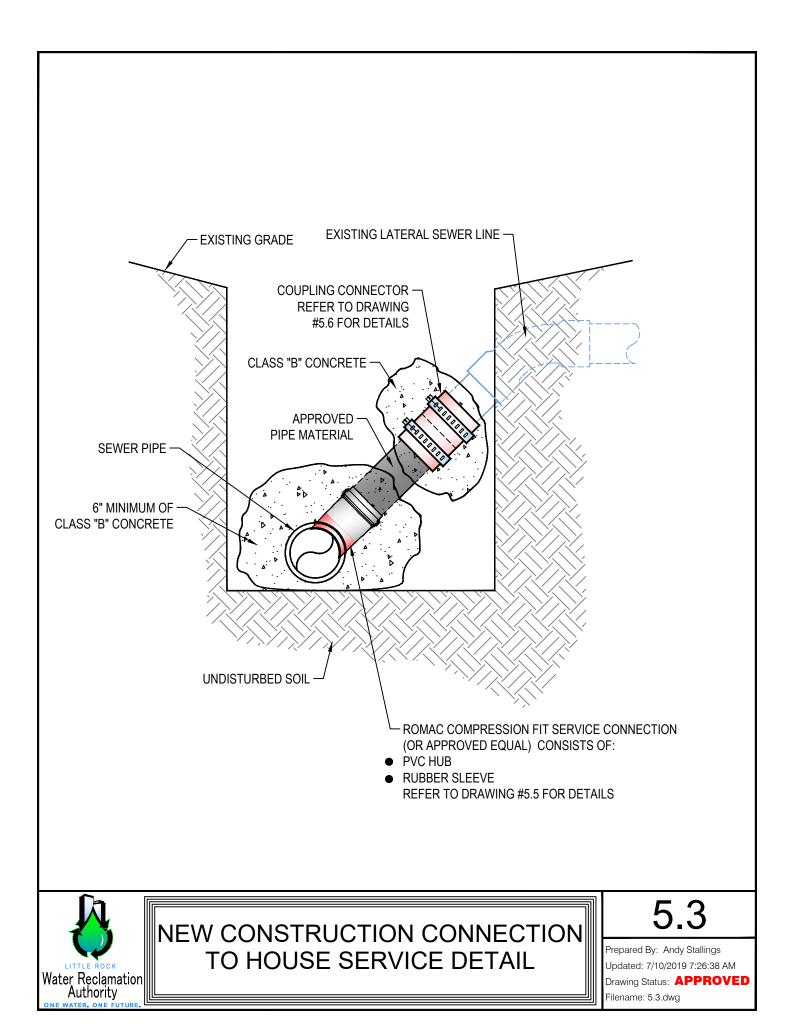


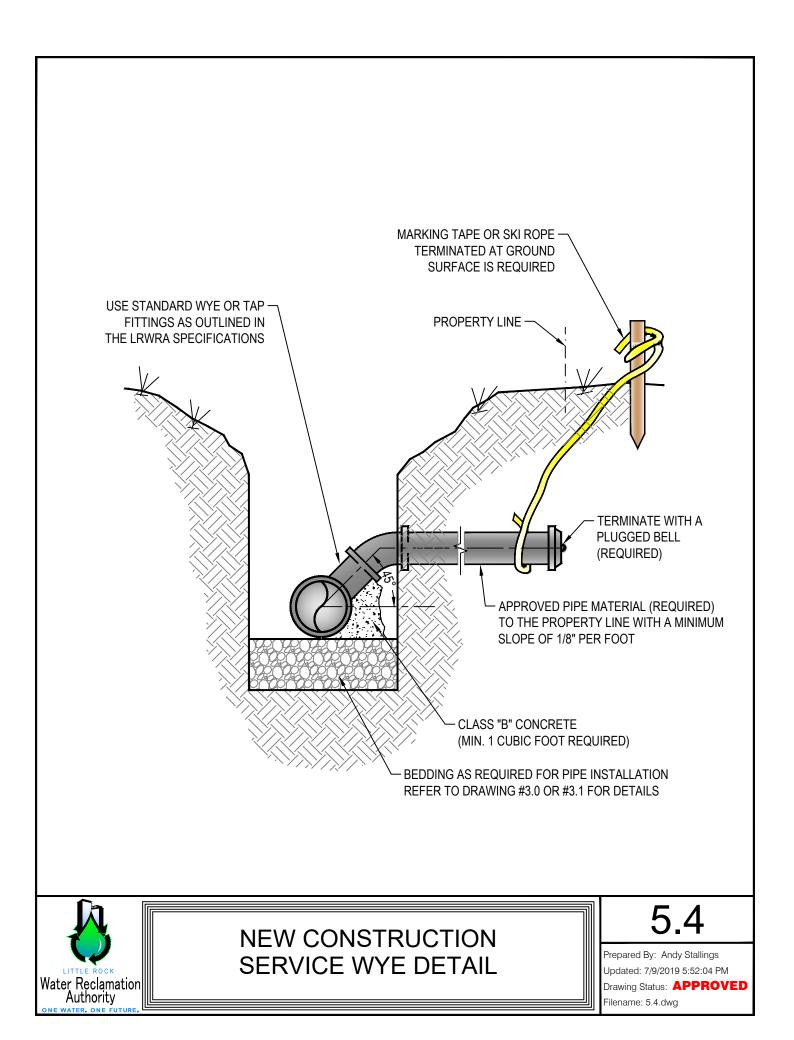


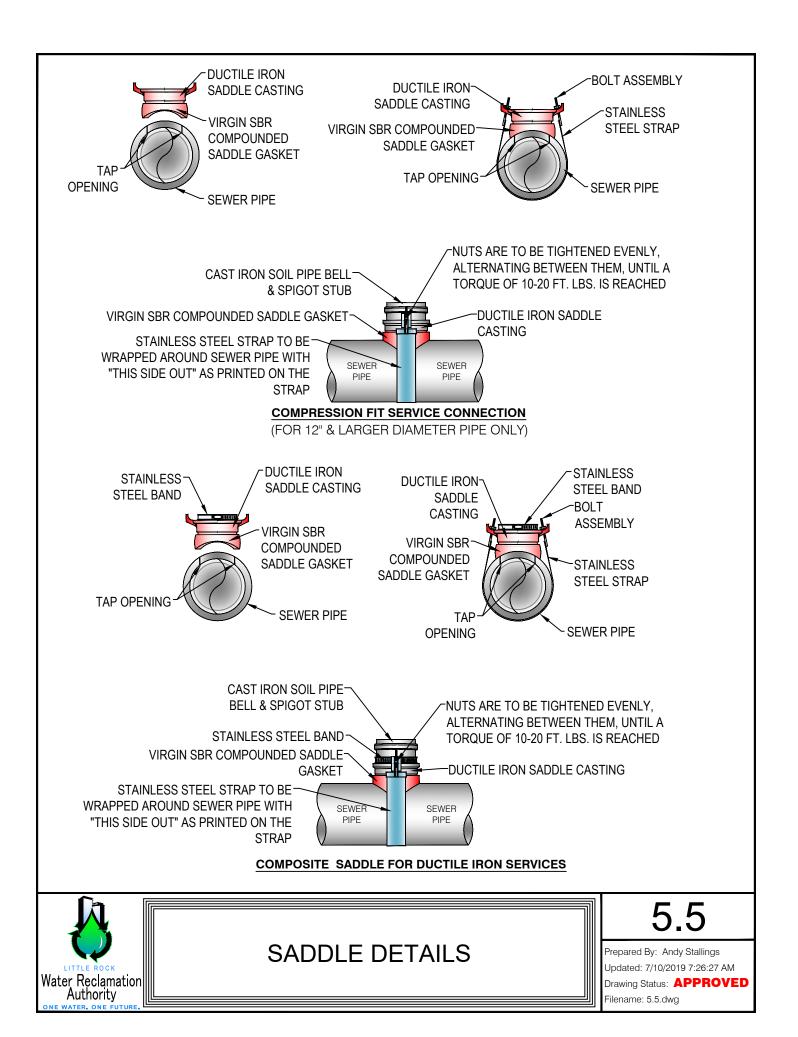


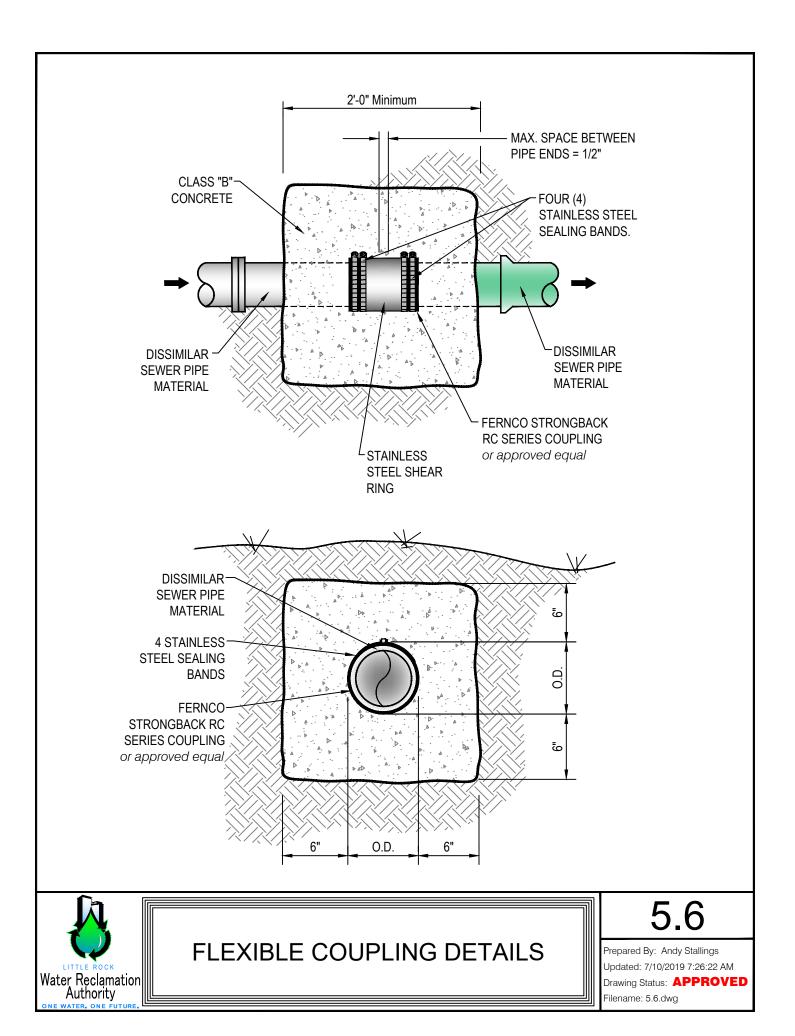


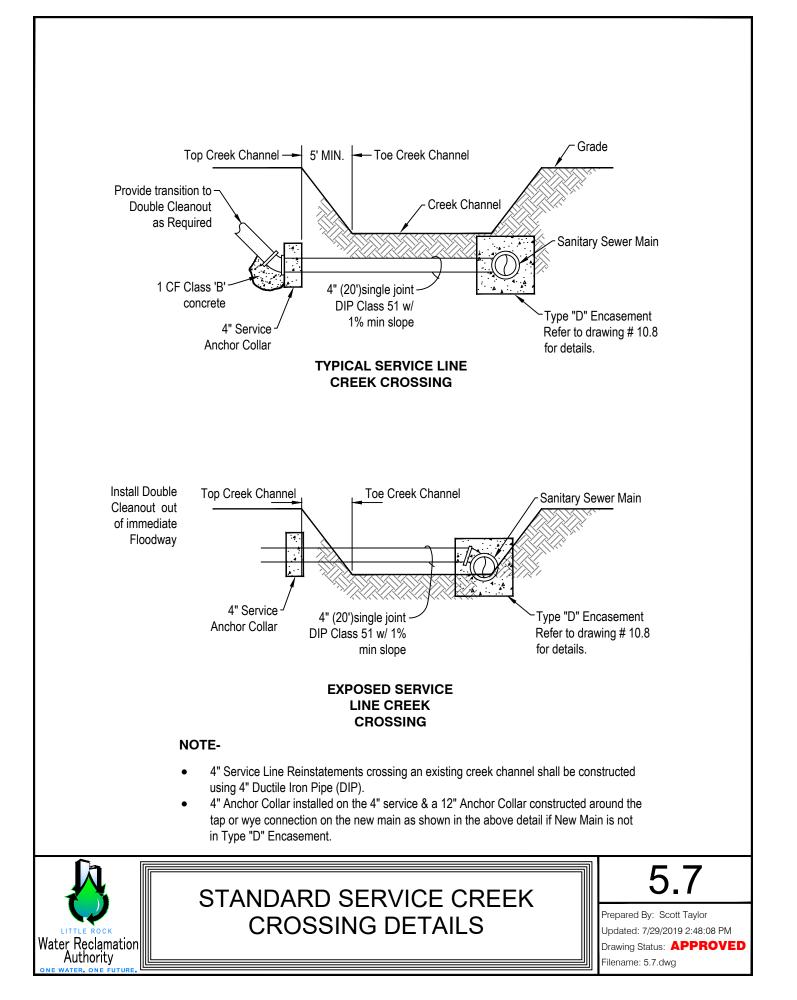


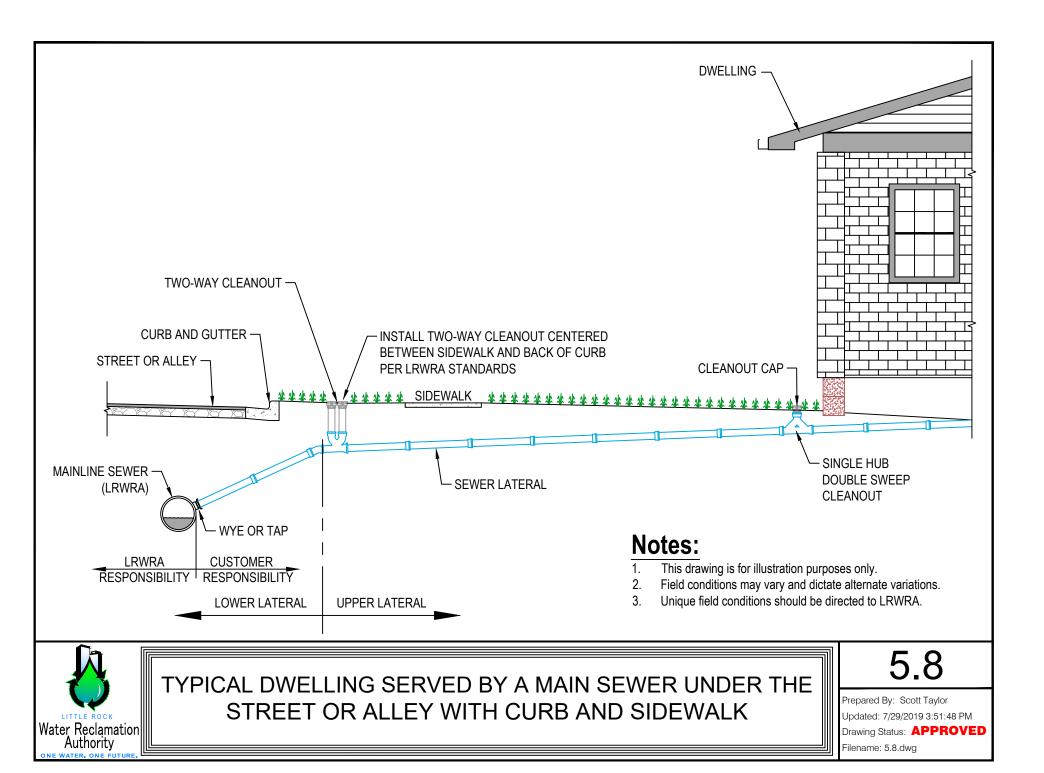


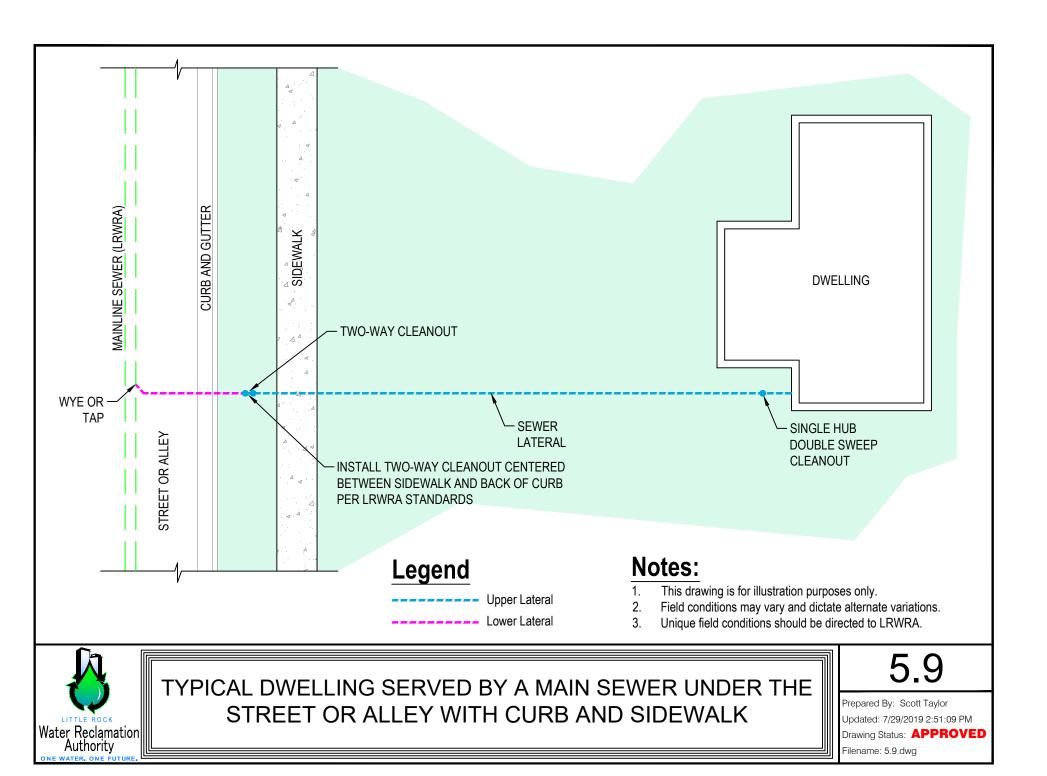


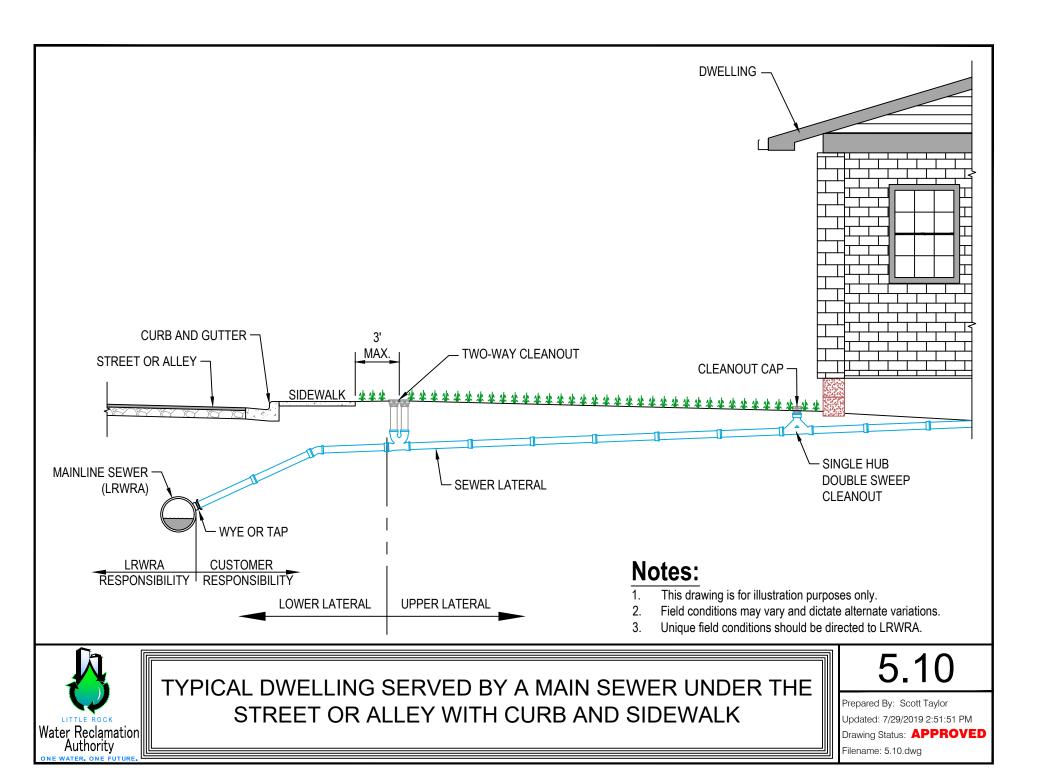


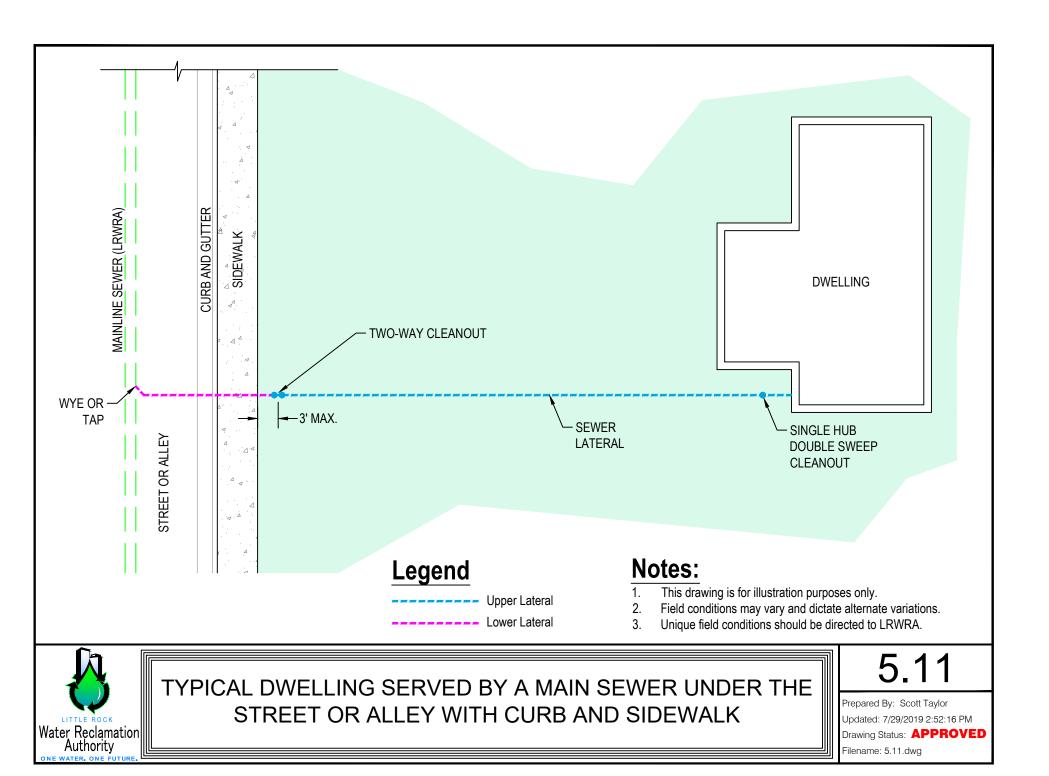


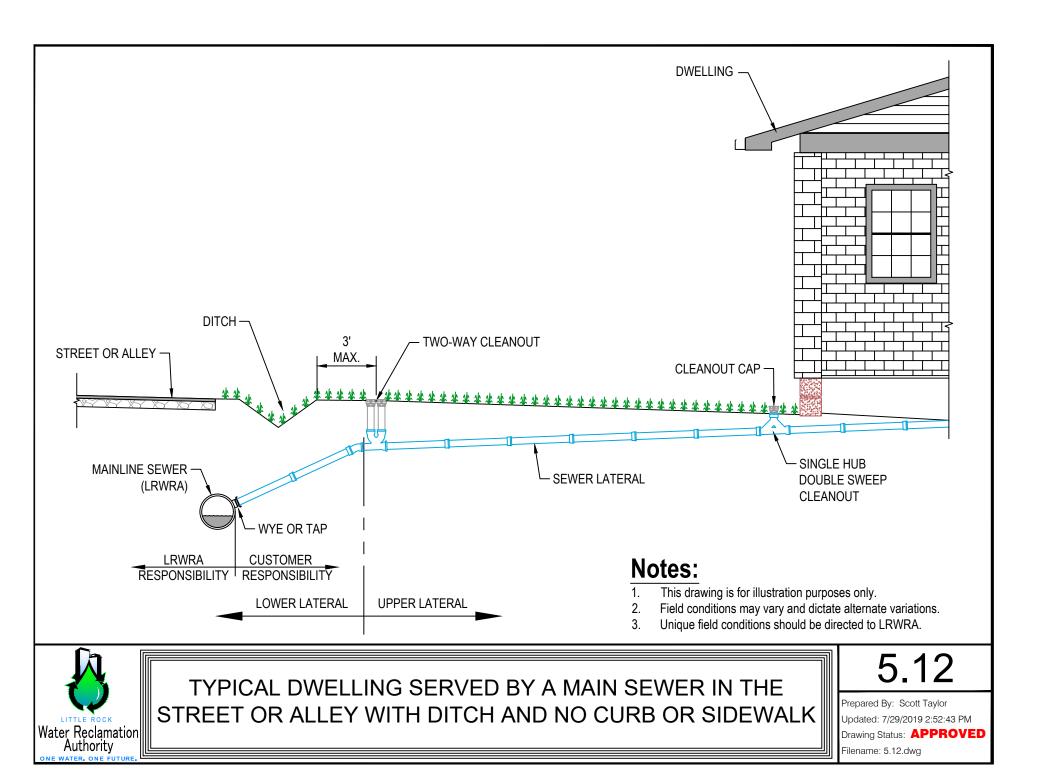


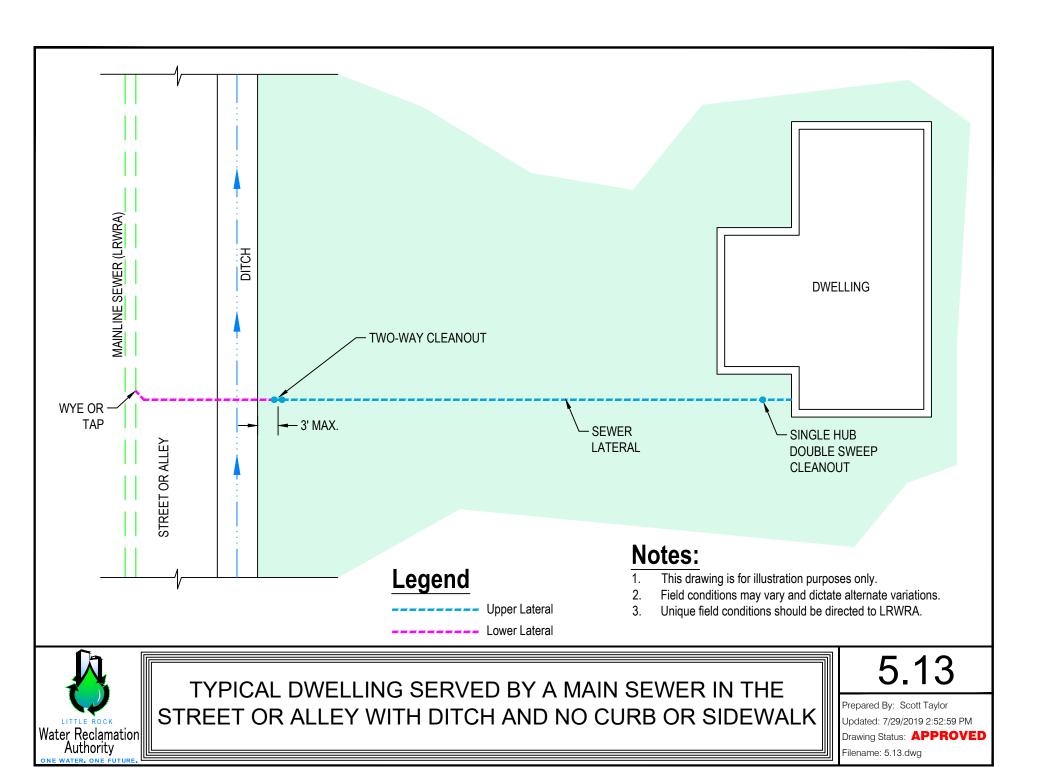


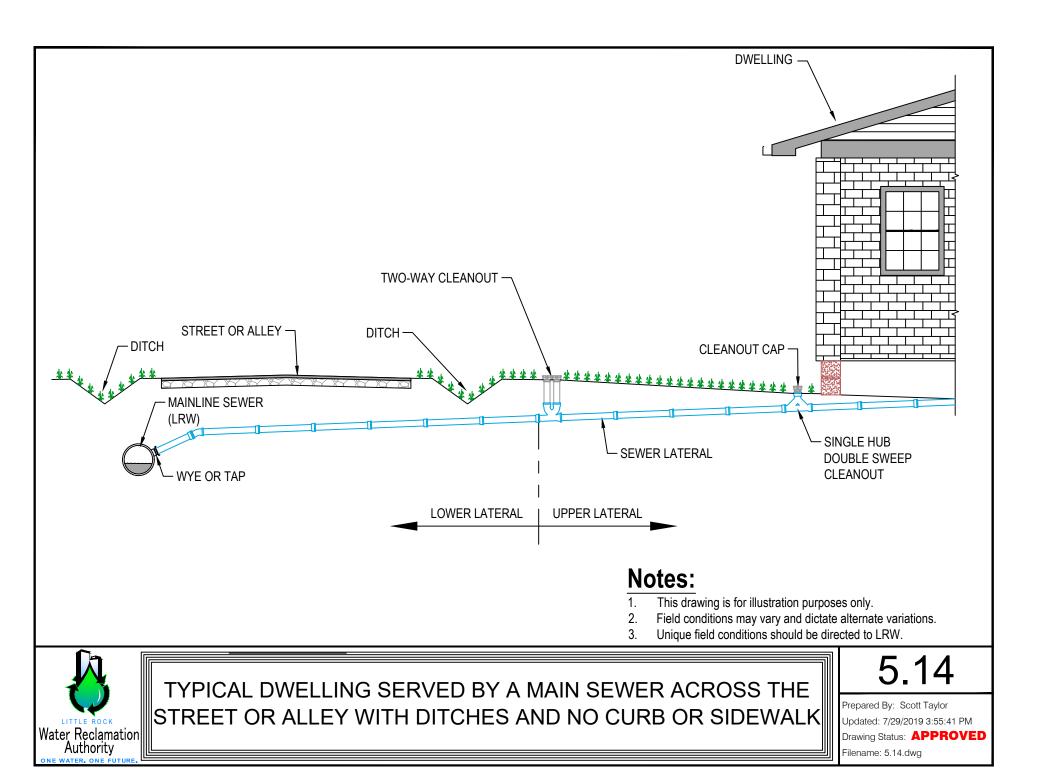


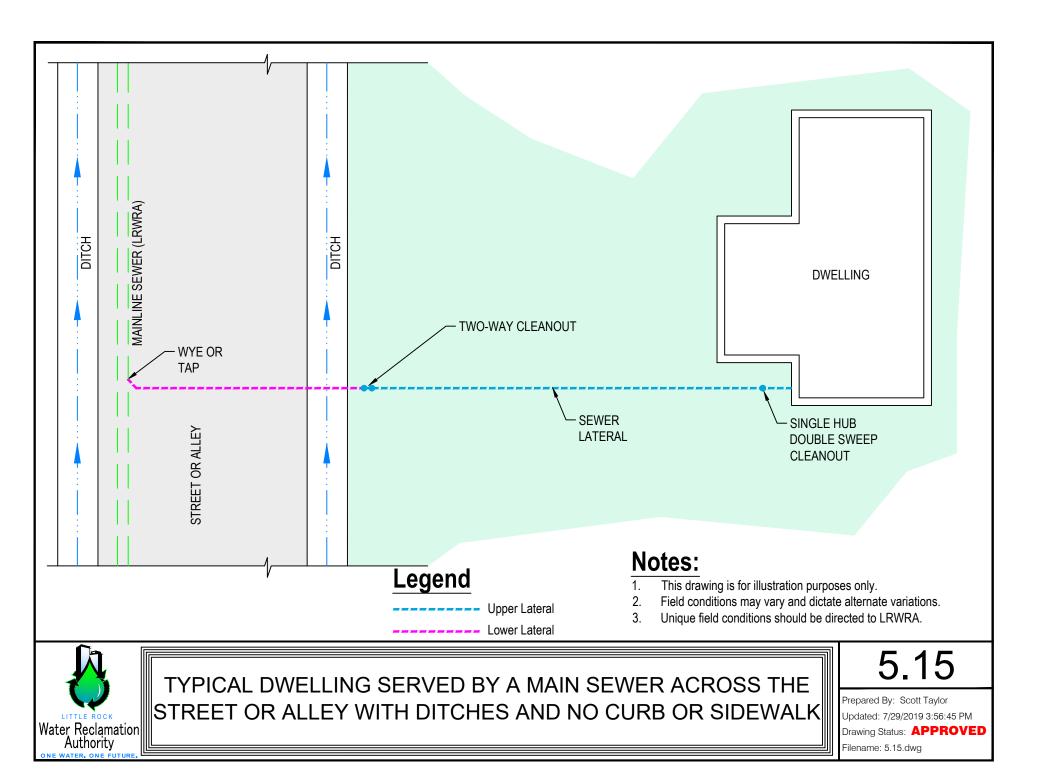


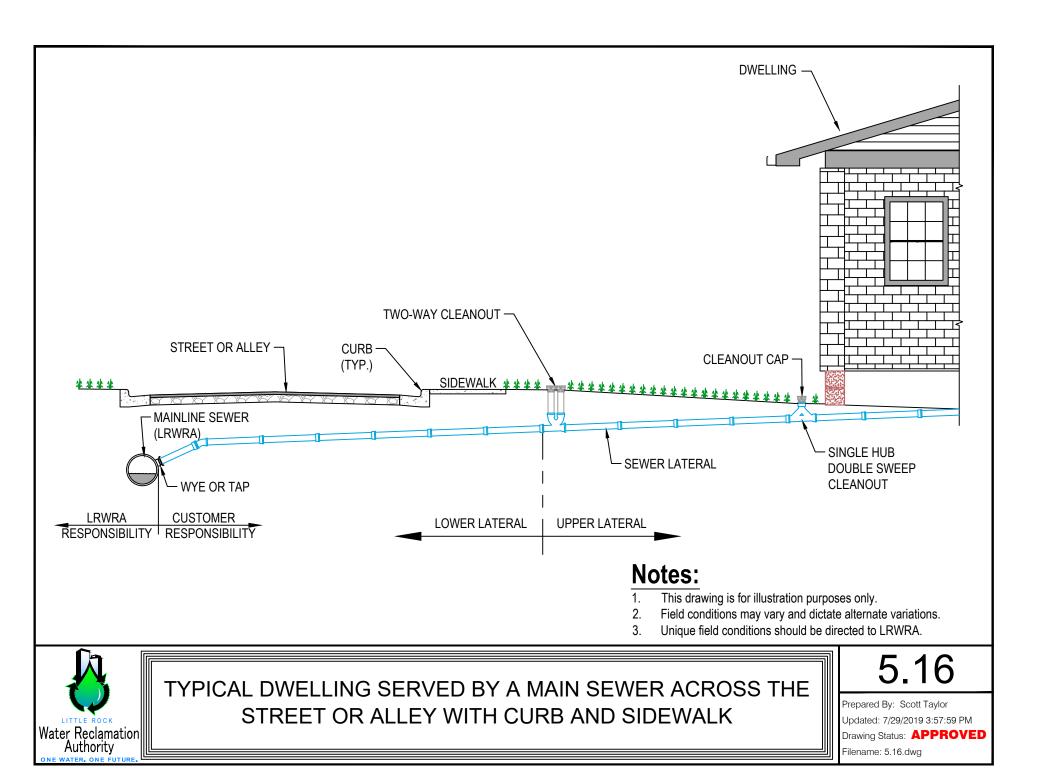


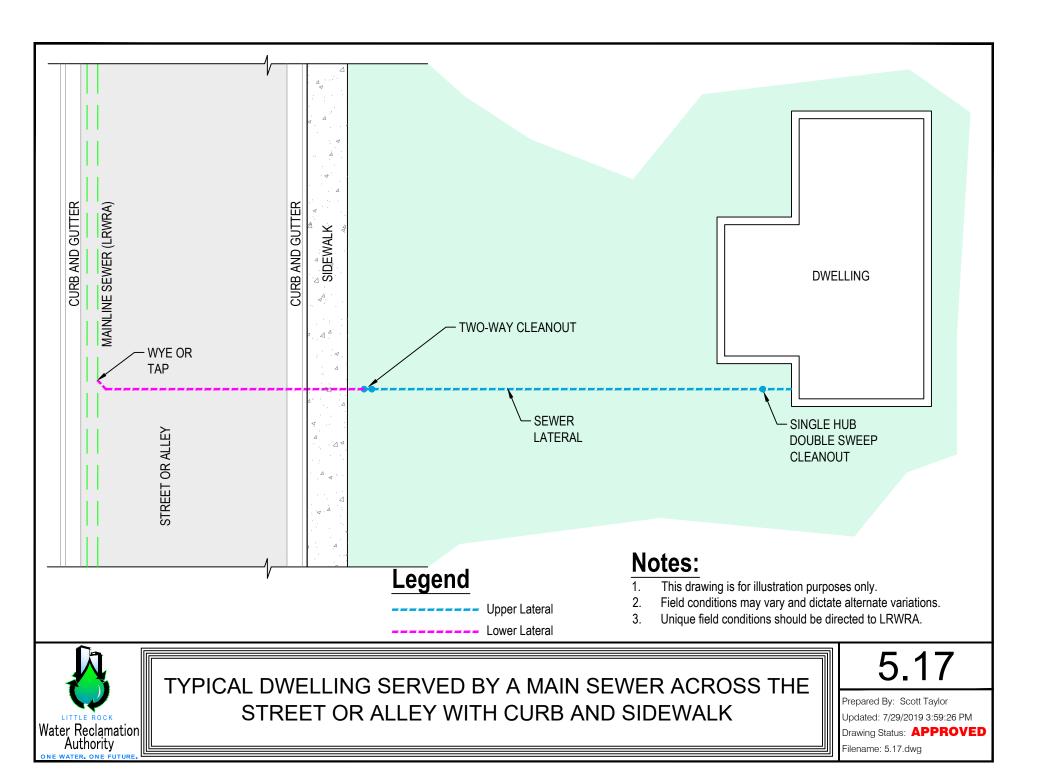


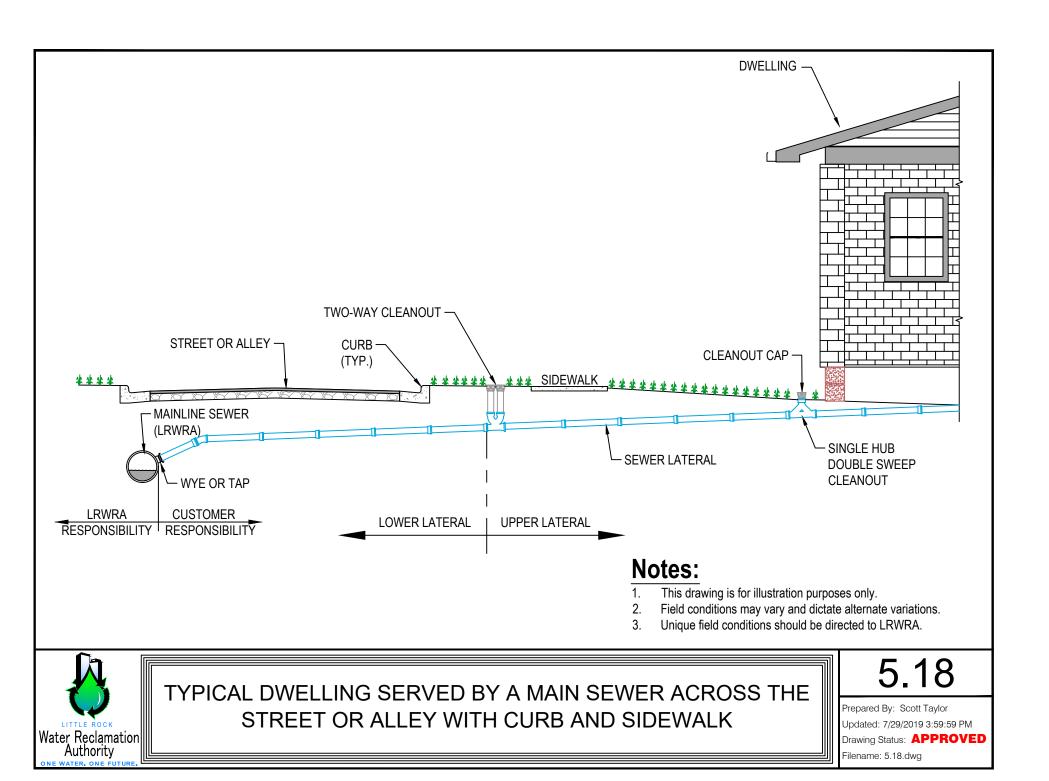


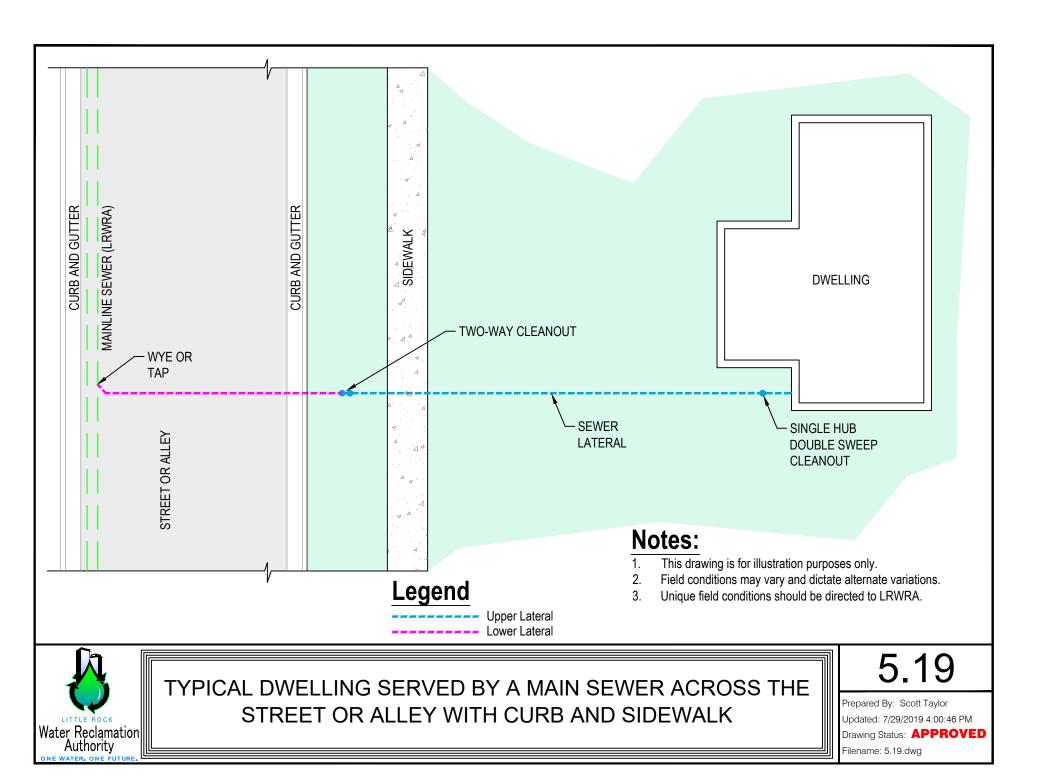


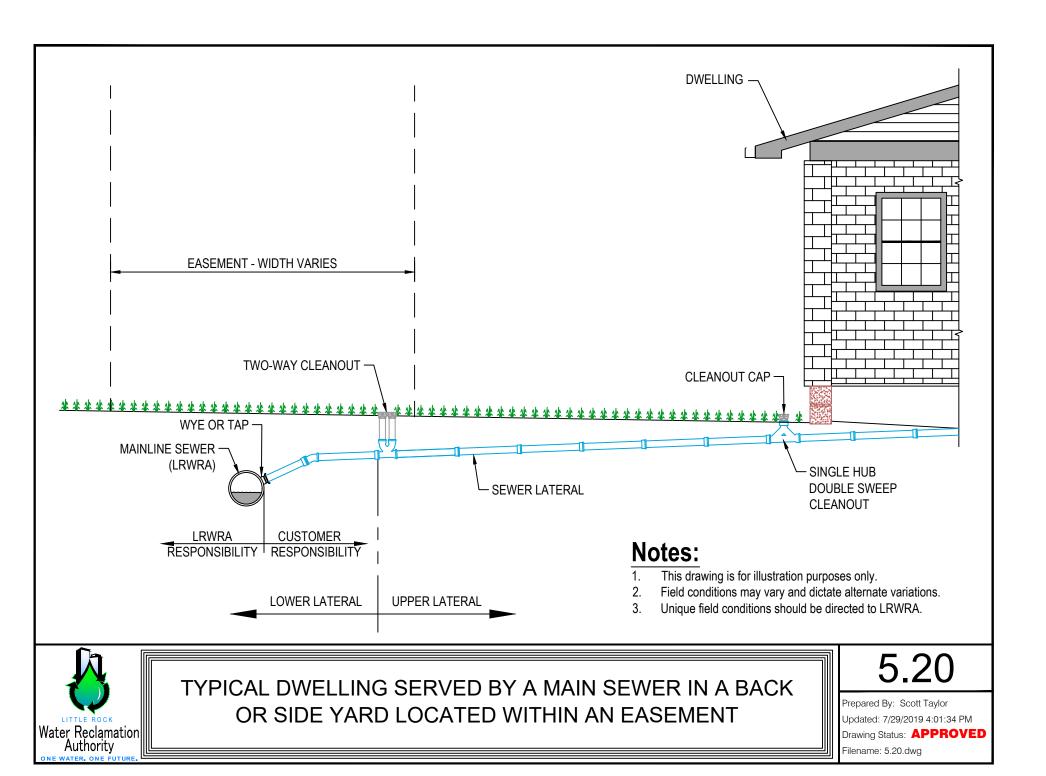


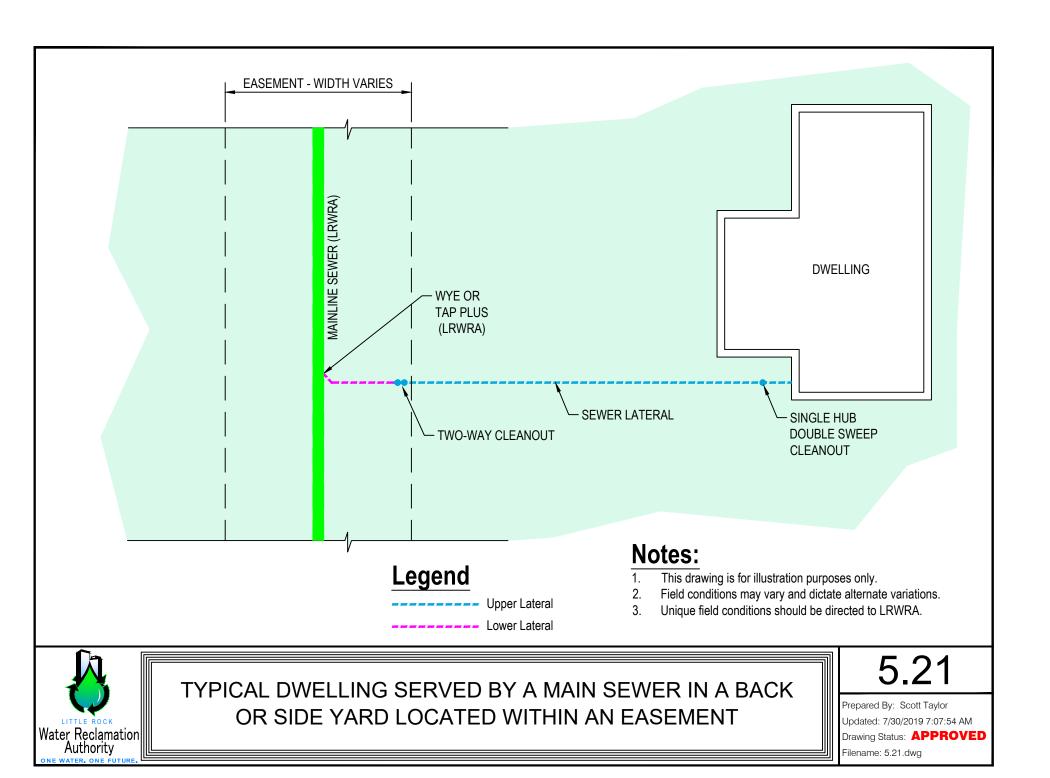


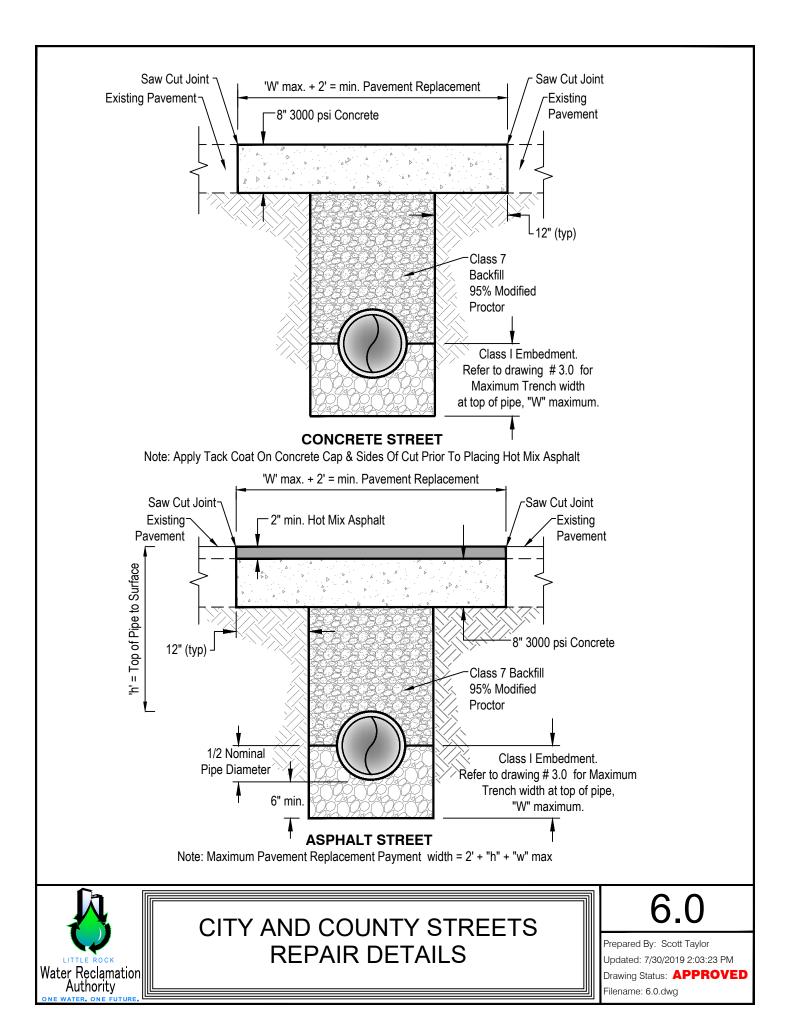


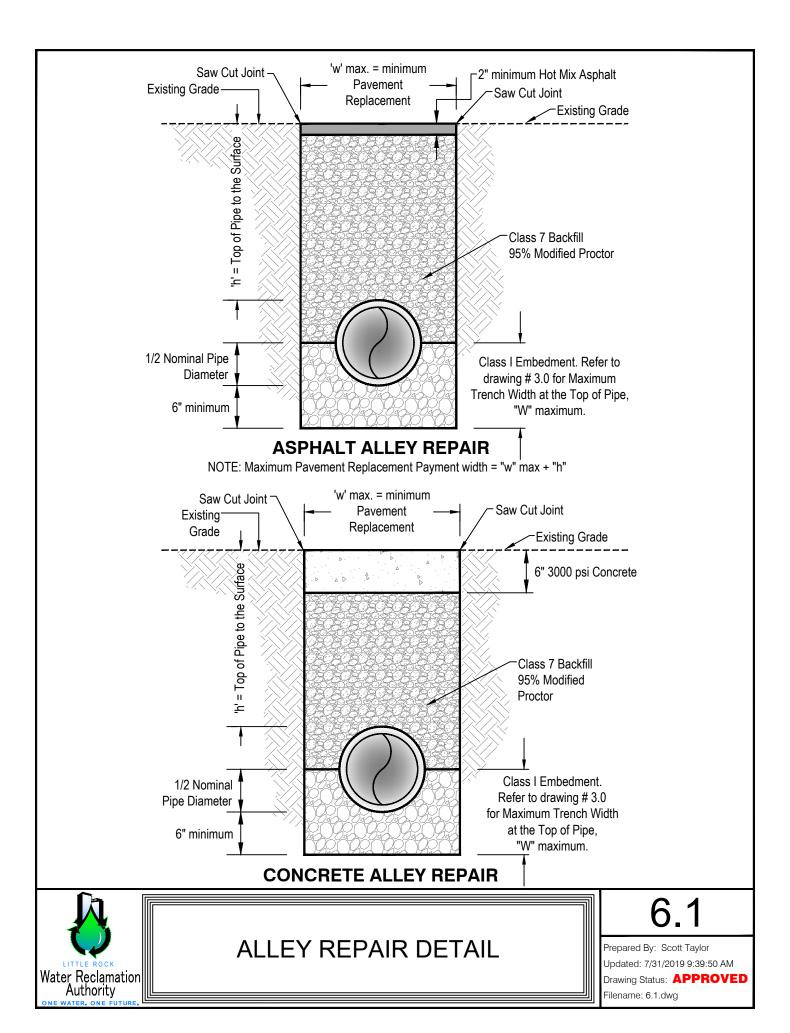


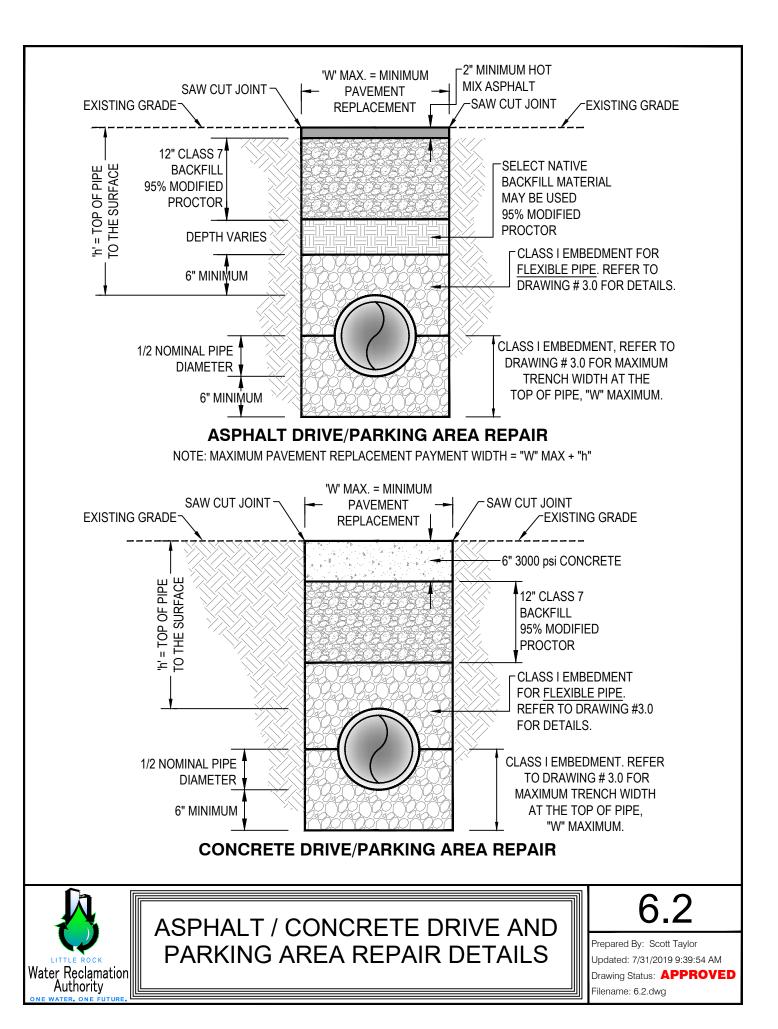


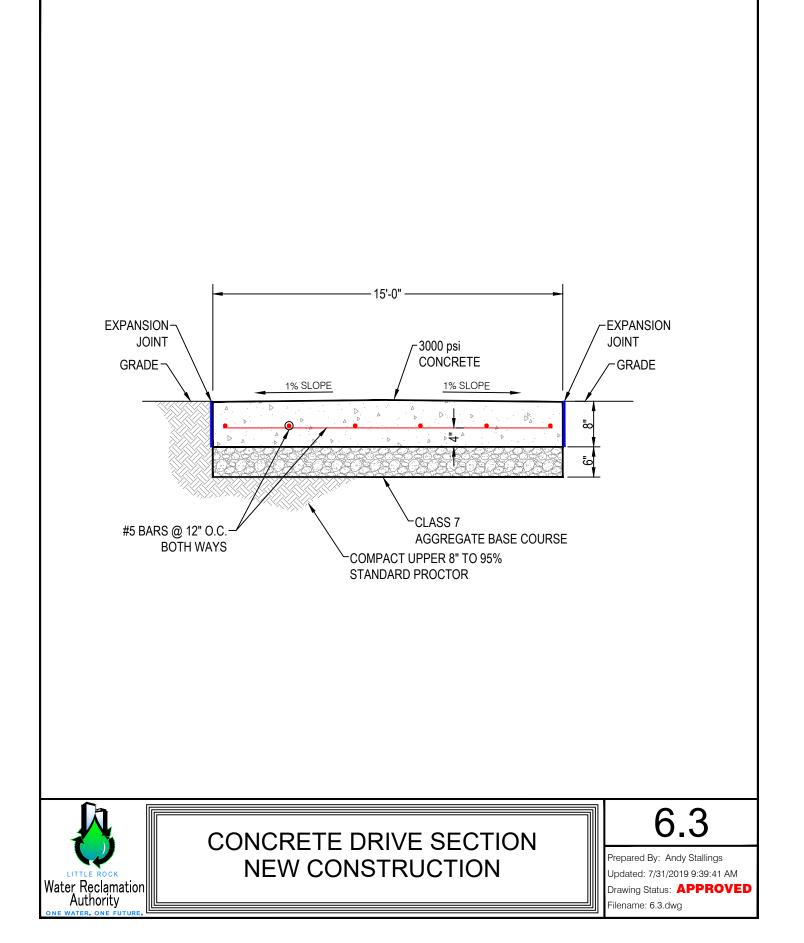


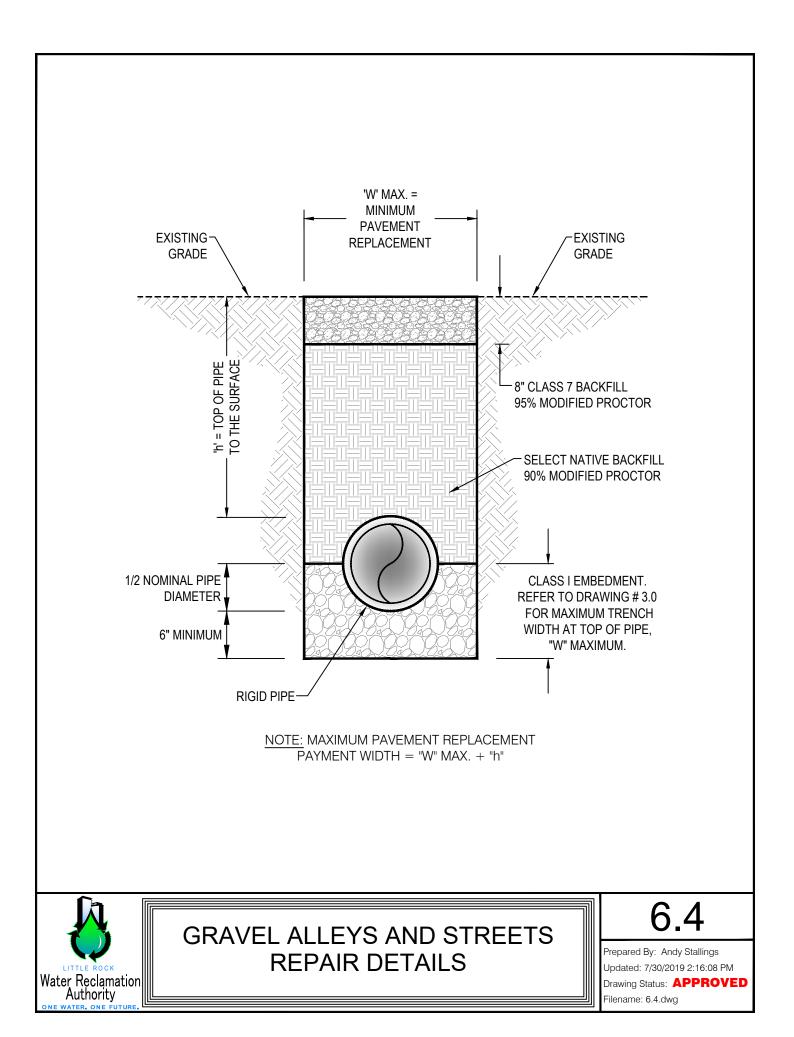


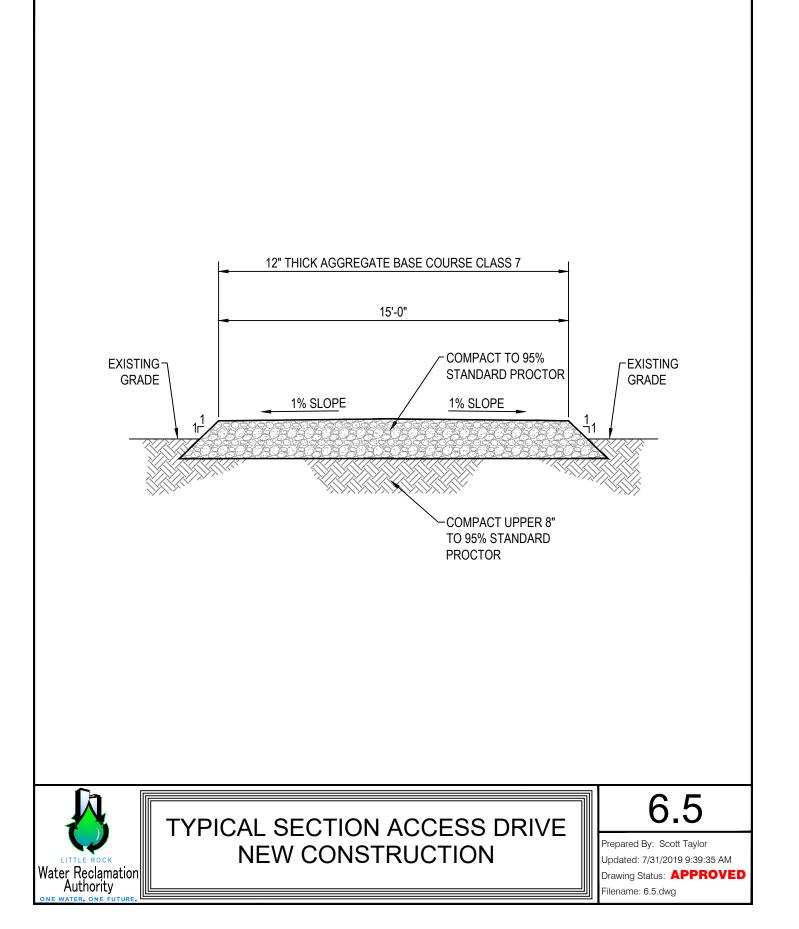


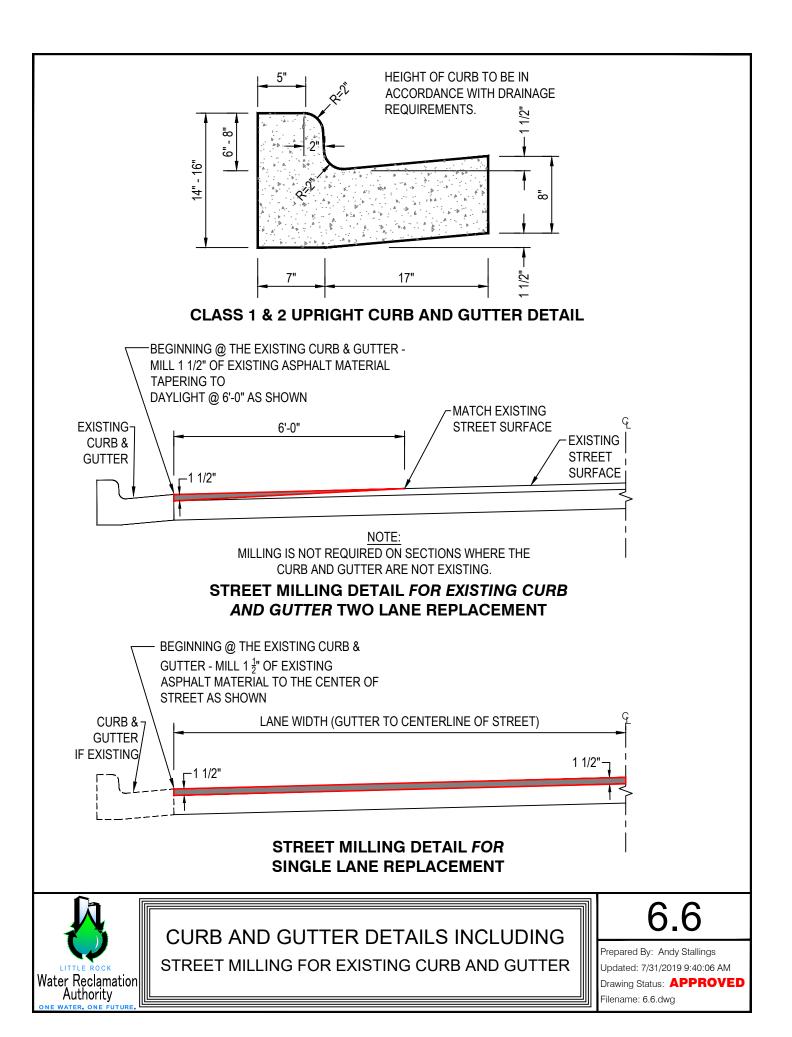


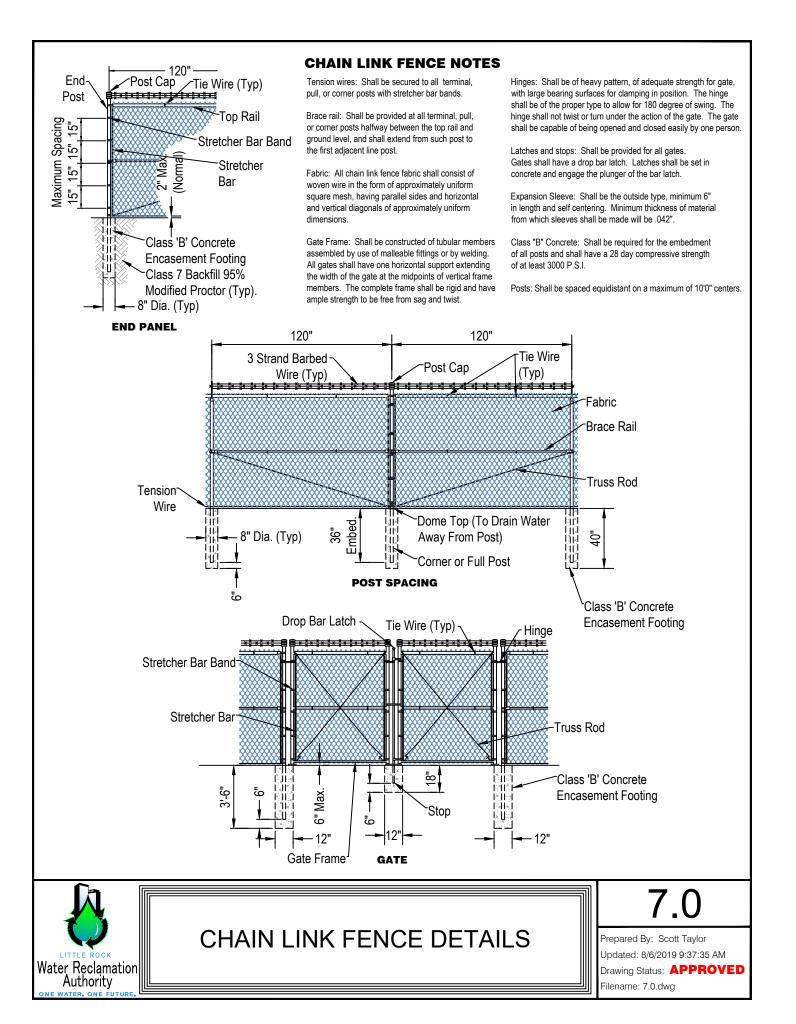


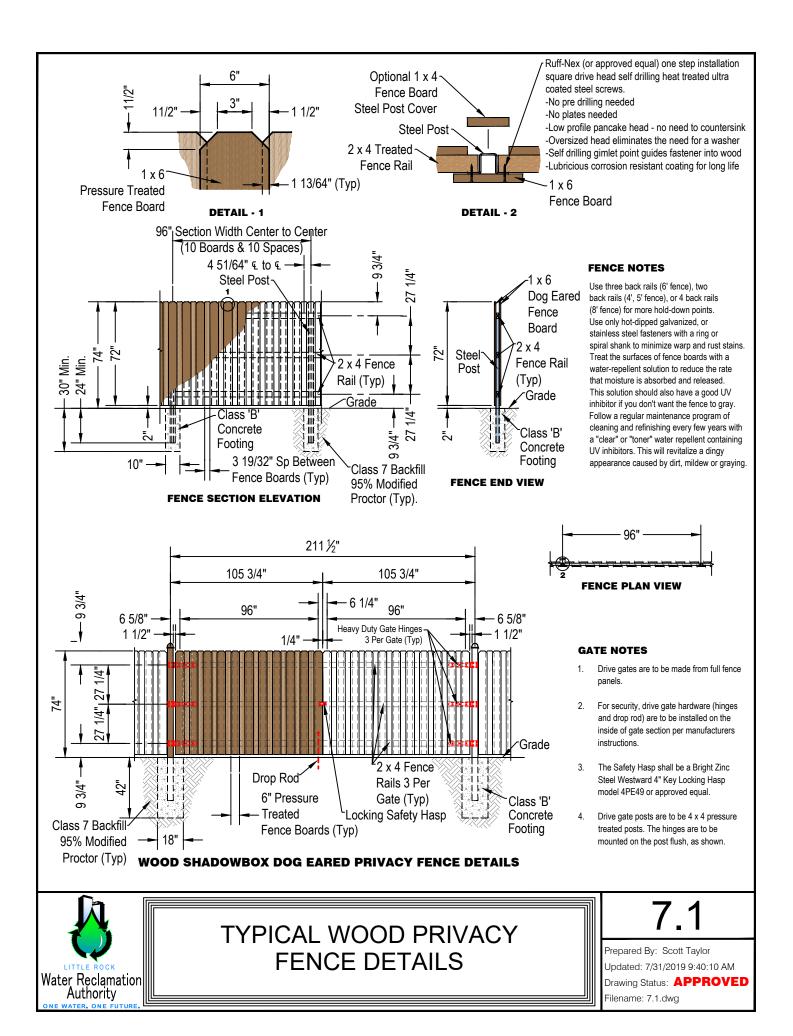


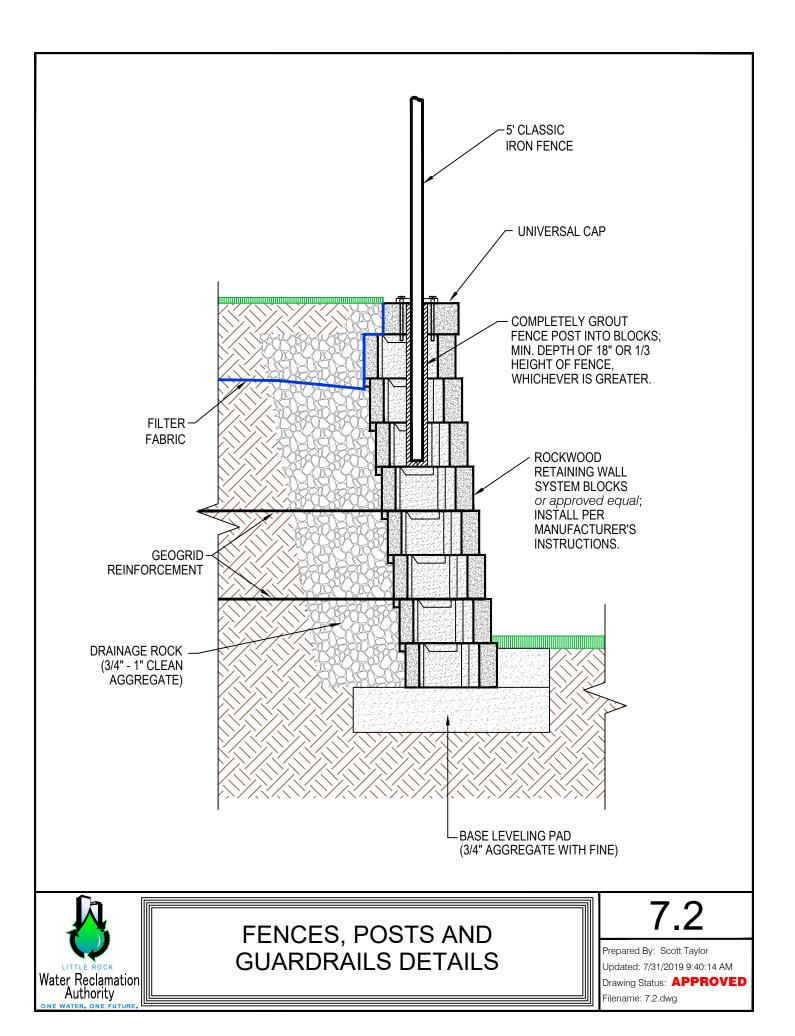


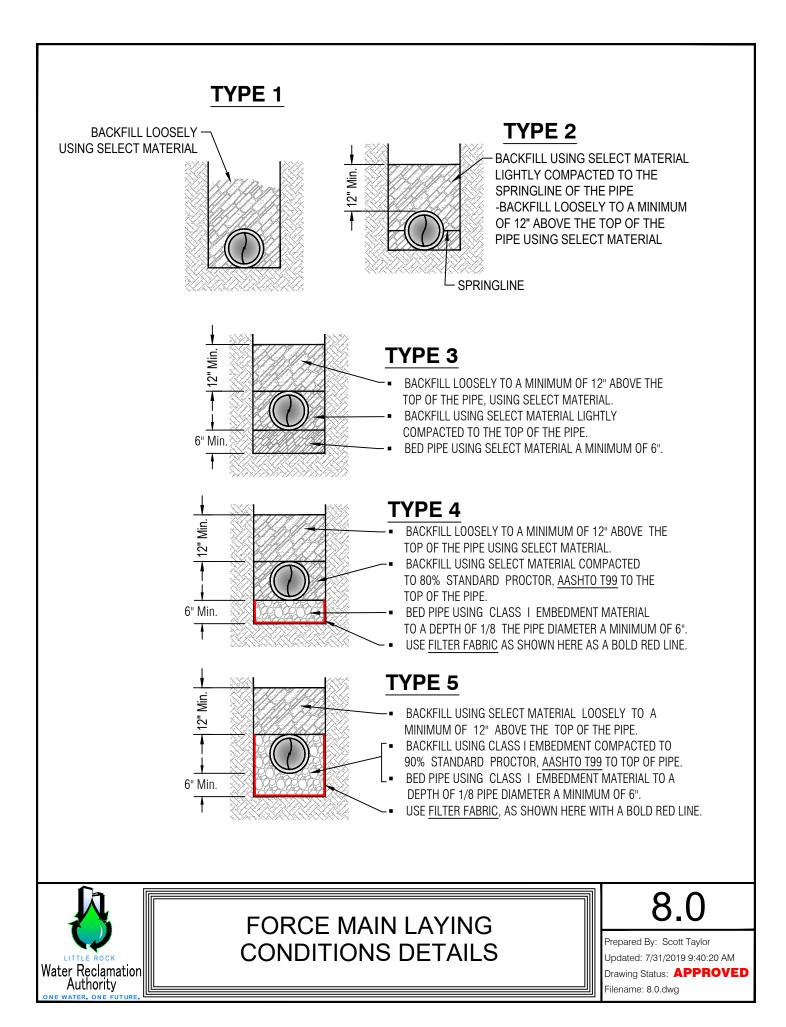


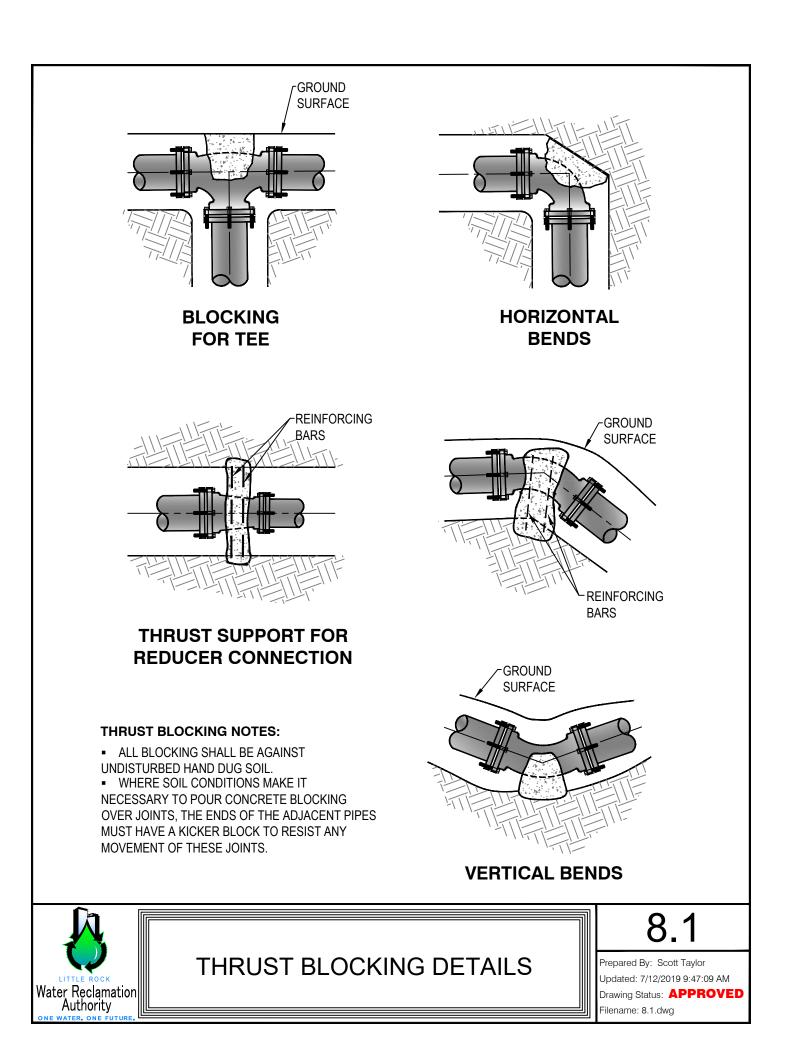














FITTING

11 1/4°

15

22 1/2°

30

45

90

PLUG (DEAD END)

## CONCRETE THRUST BLOCK AND COLLAR BEARING TABLE

THRUST PER 100 psi PRESSURE THRUST (tons)

24"

4.4

5.9

8.8

11.7

17.3

32.0

22.6

SUGGESTED SAFE BEARING

VALUES (TONS/SQ. FT.)

25

6

4

2

4

1.5

2.5 0.75 30"

6.9

9.2

13.8

18.3

27.1

50.0

35.3

36"

10.0

13.3

19.9

26.3

39.0

72.0

50.3

42"

13.6

18.1

27.0

35.3

53.0

98.0

69.3

48"

17.7

23.6

35.3

46.8

69.2

128.0

90.5

20"

3.1

4.1

6.1

8.1

12.0

22.2

15.7

12"

1.1

1.5

2.2

2.9

4.3

8.0

5.7

TYPE OF SOIL

SOLID ROCK

HARD SLATE

MEDIUM SHALE

SOFT SHALE

DRY CLAY GRAVEL

SOFT CLAY

DRY SAND OR LOAM

WET CLAY

16"

2.0

2.6

3.9

5.2

7.7

14.2

10.1

6"

0.3

0.4

0.6

0.7

1.1

2.0

1.4

8"

0.5

0.7

1.0

1.3

1.9

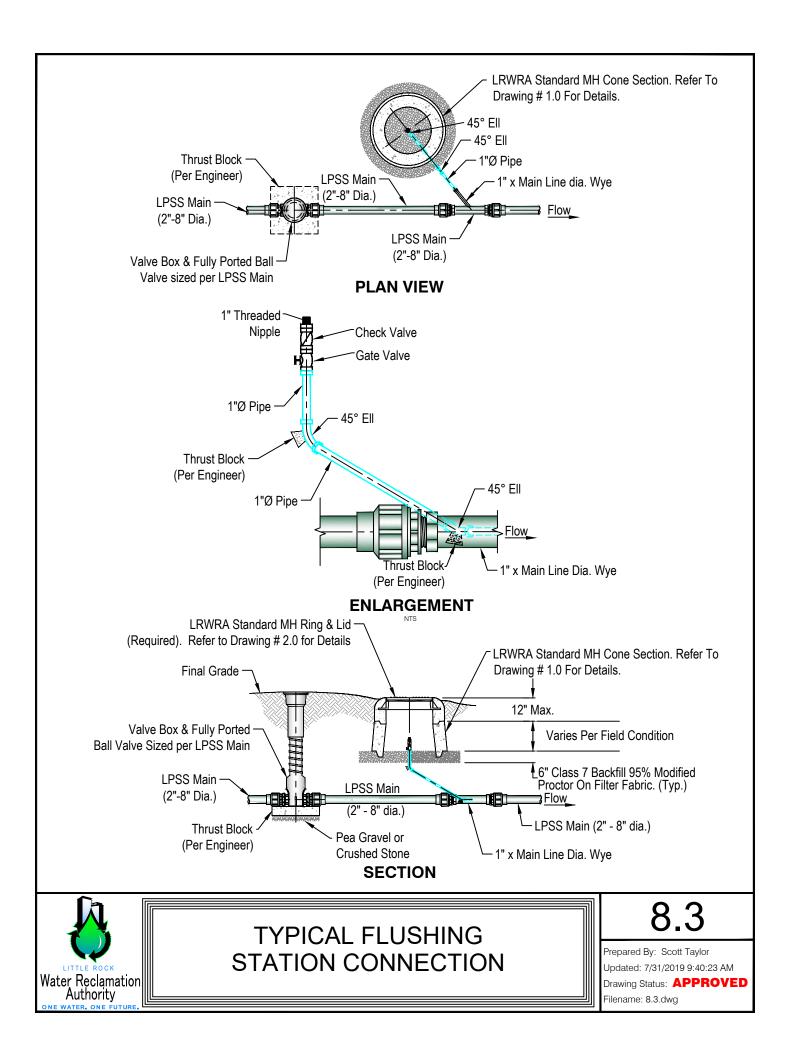
3.6

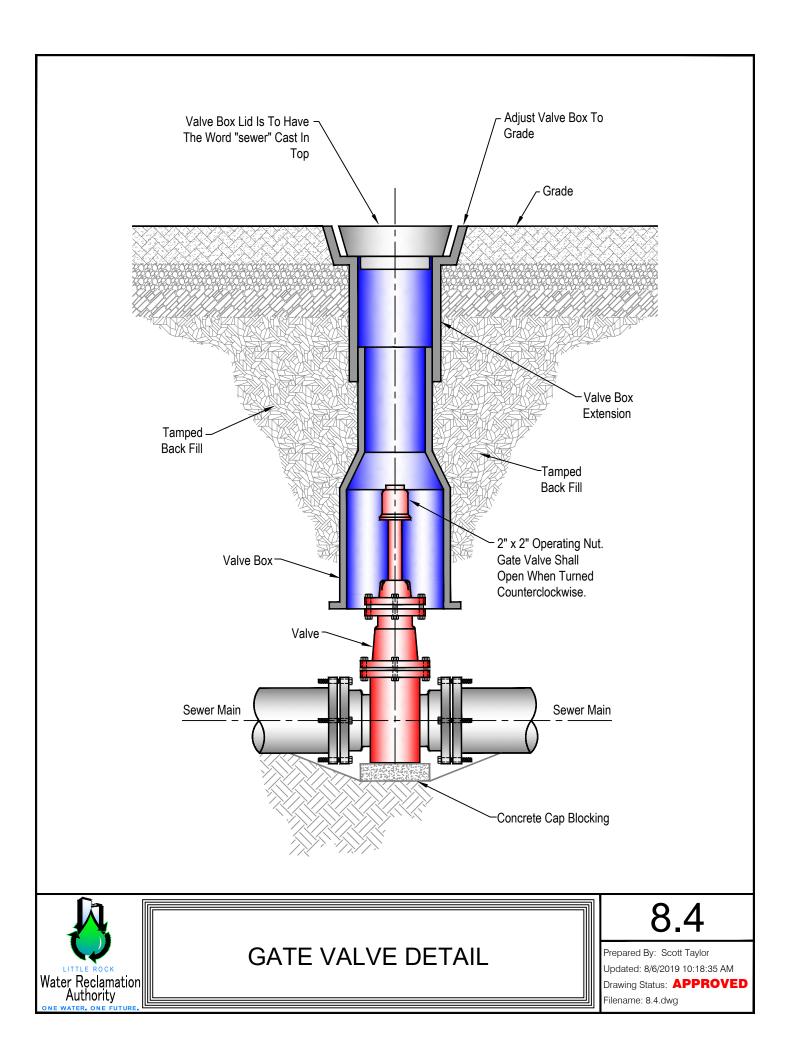
2.5

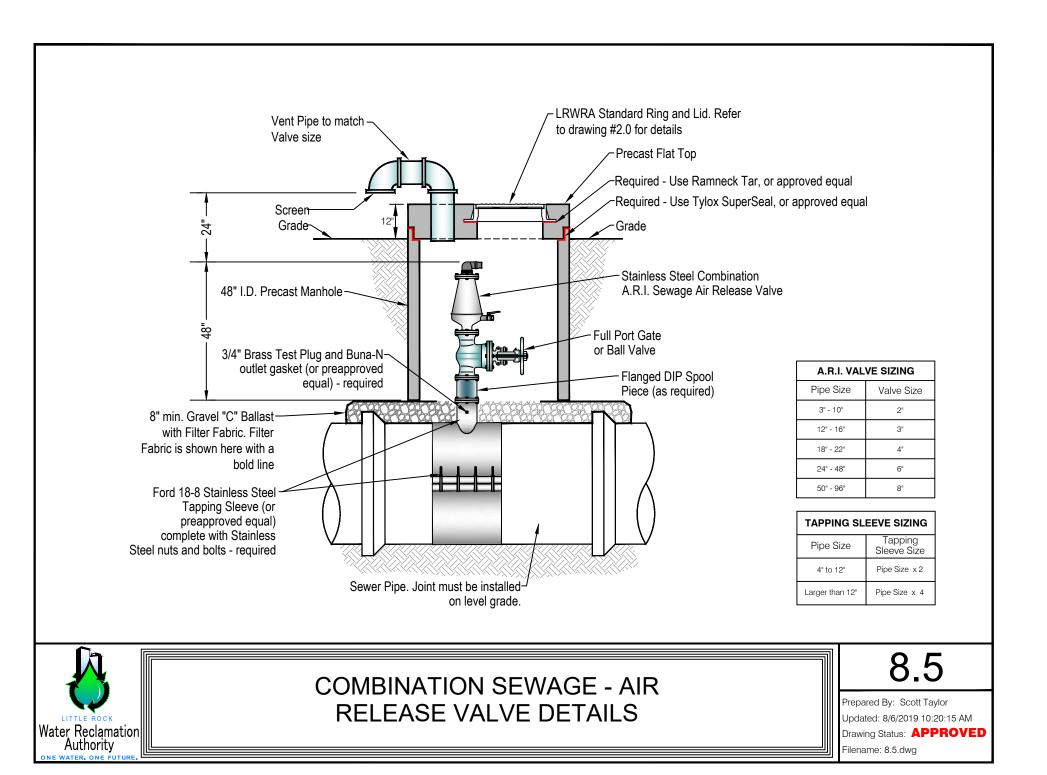
Prepared By: Scott Taylor Updated: 7/15/2019 1:13:18 PM Drawing Status: APPROVED Filename: 8.2.dwg

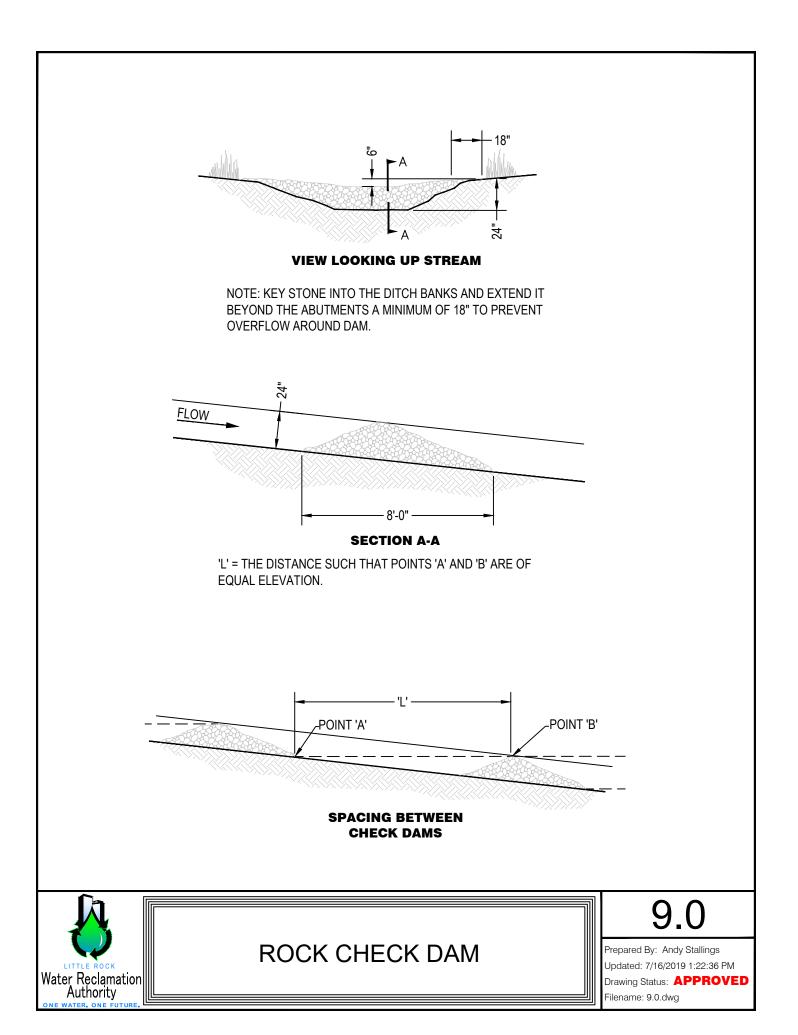


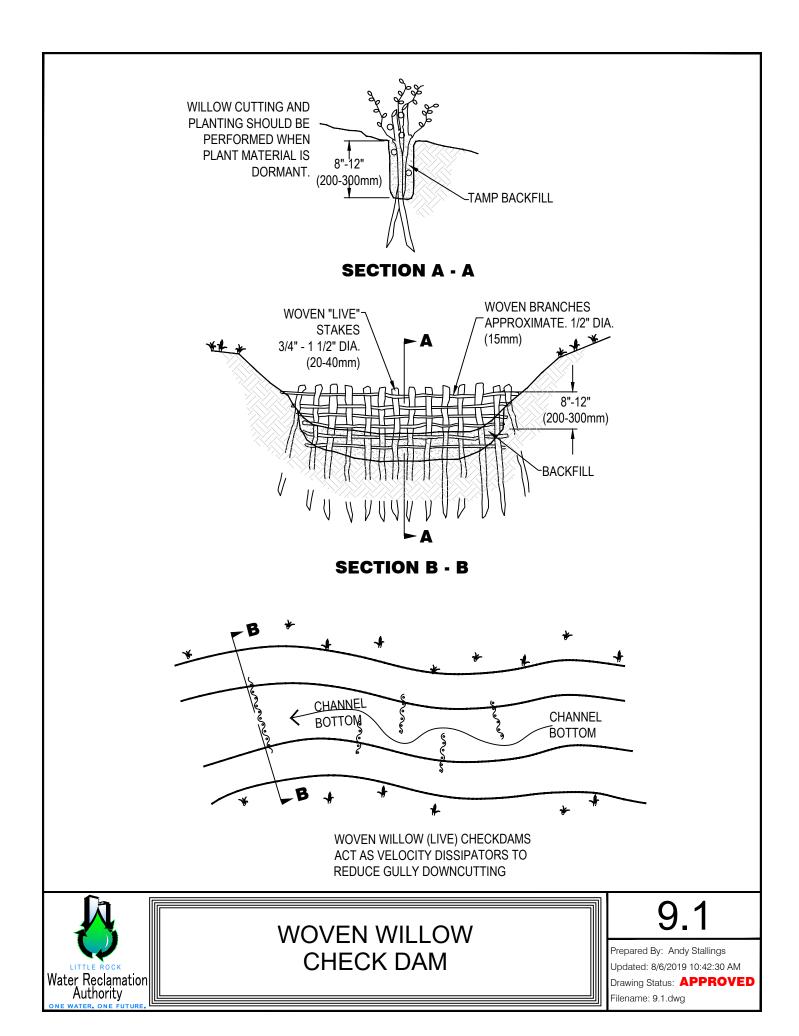


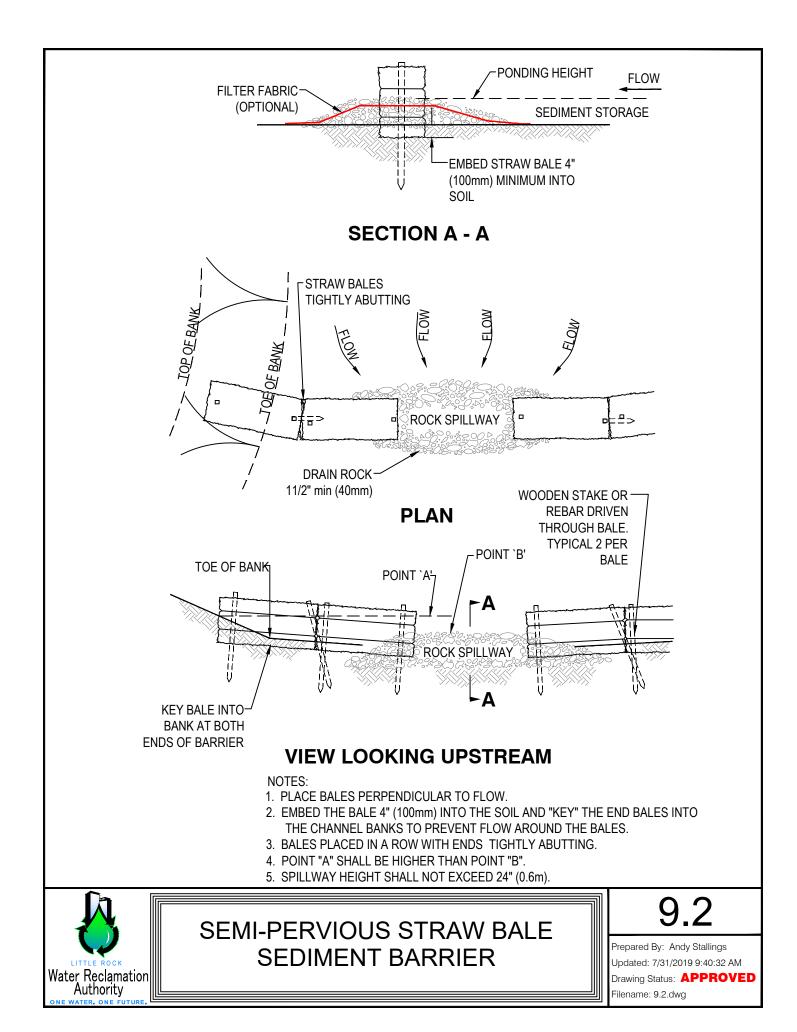


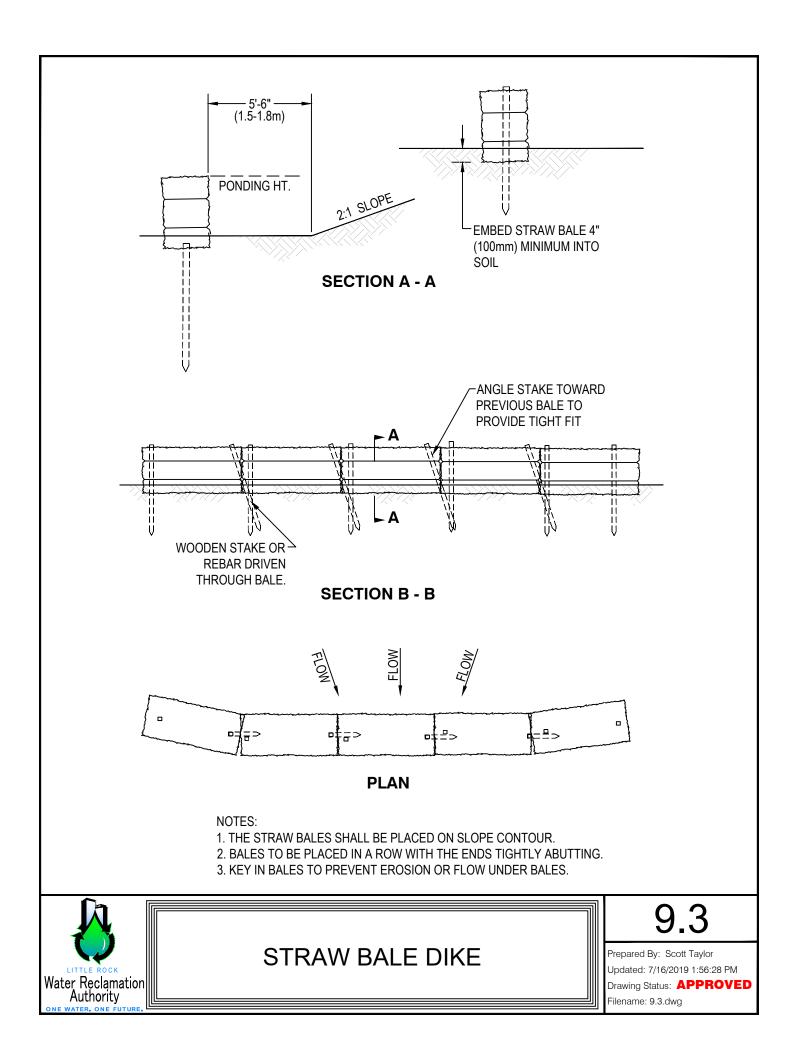


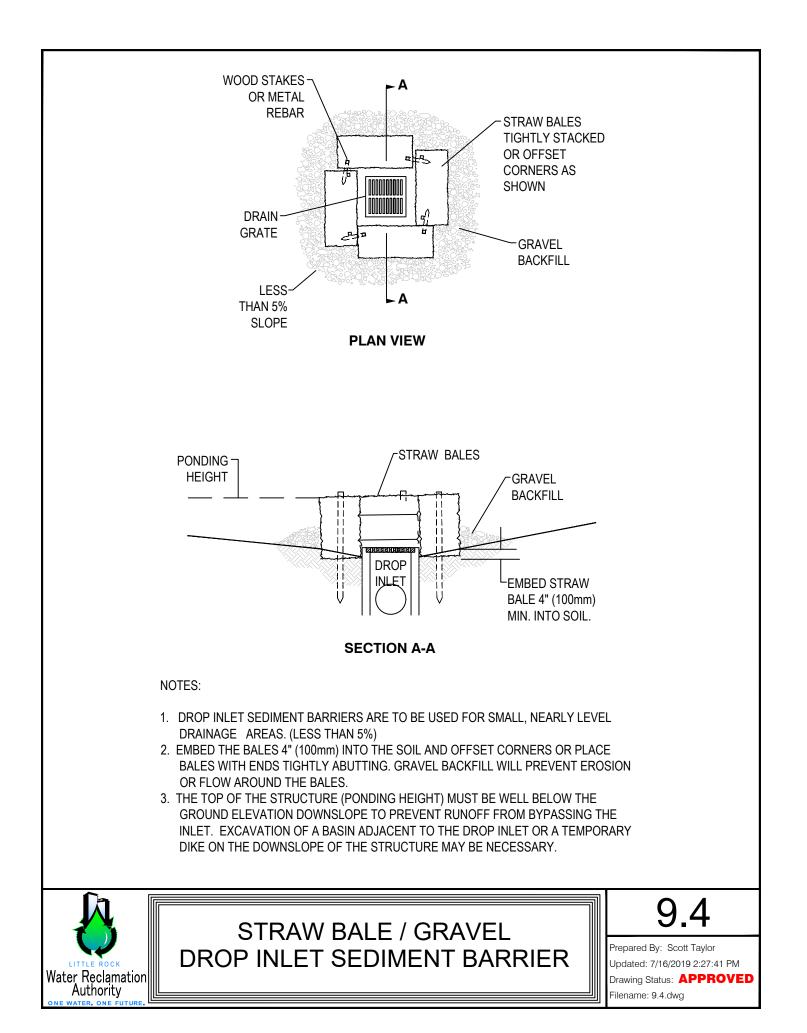


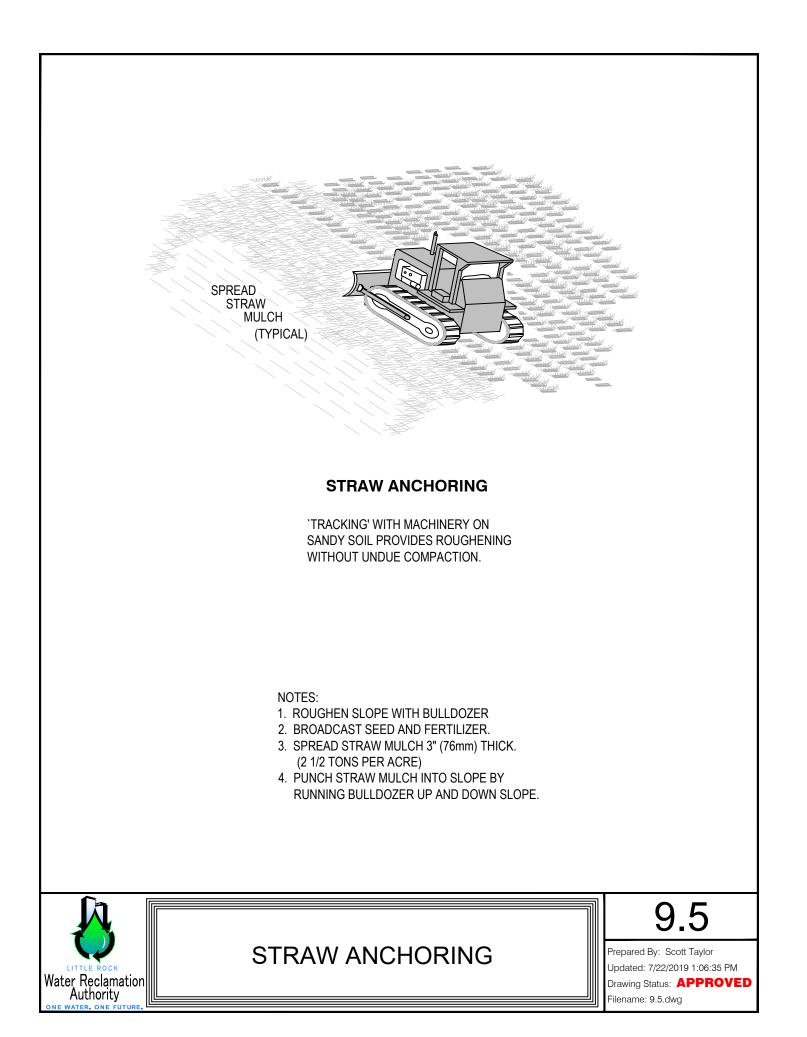


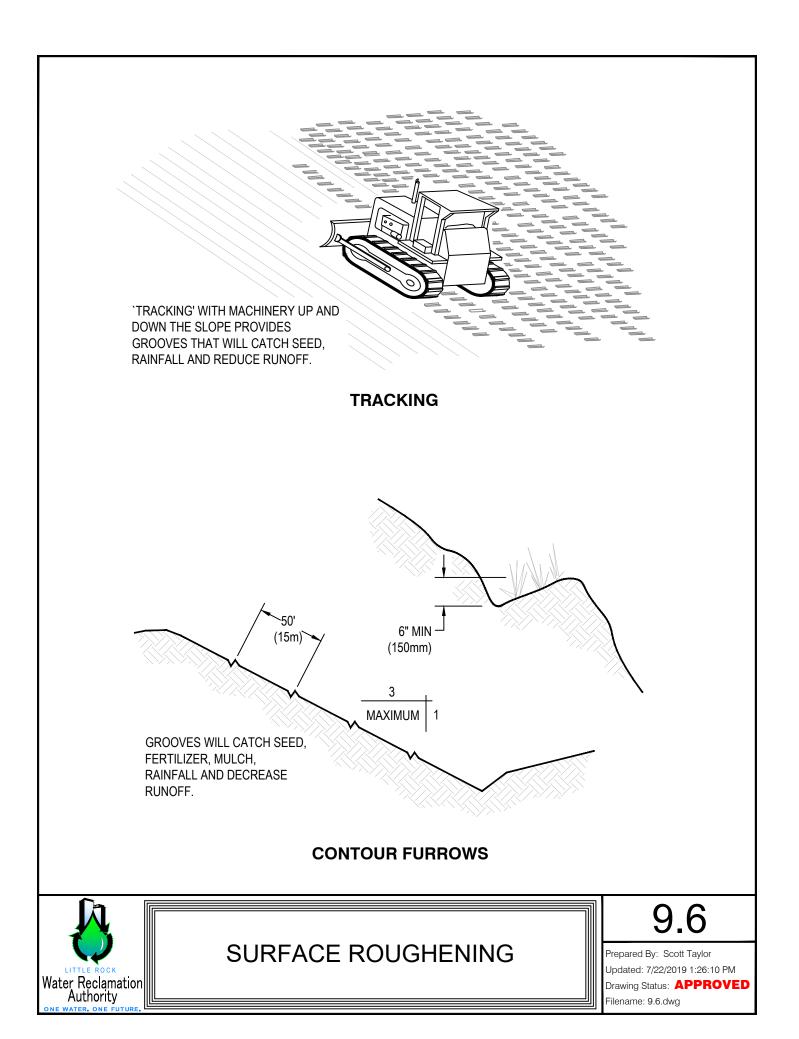


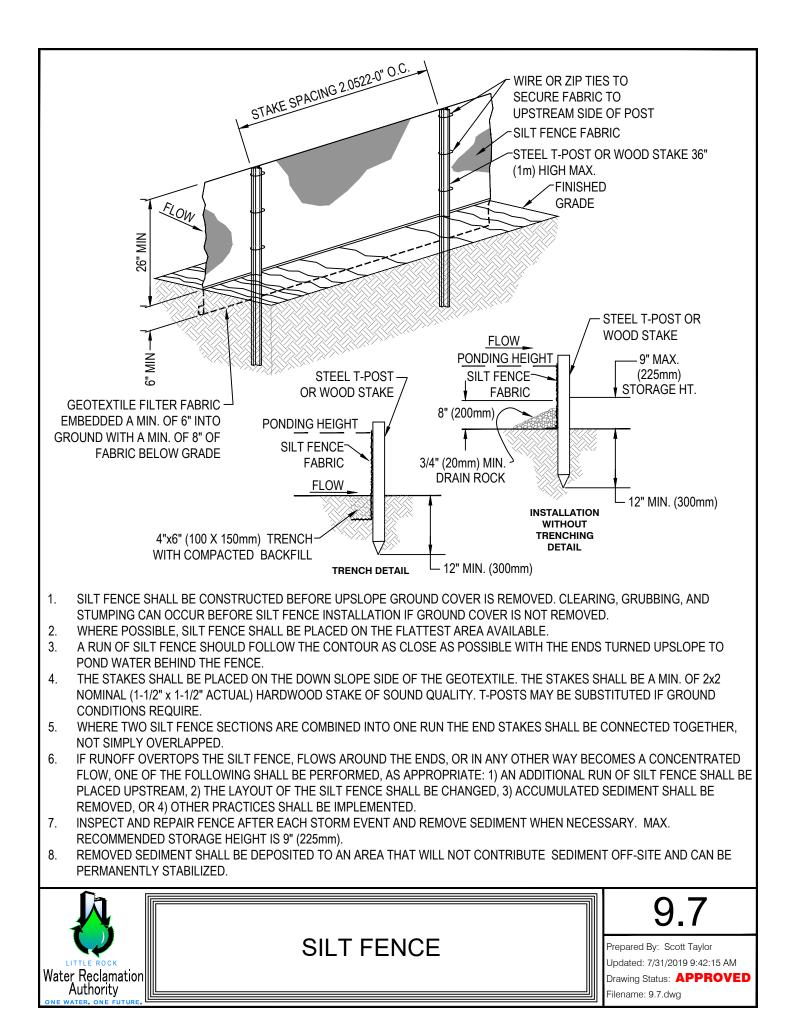


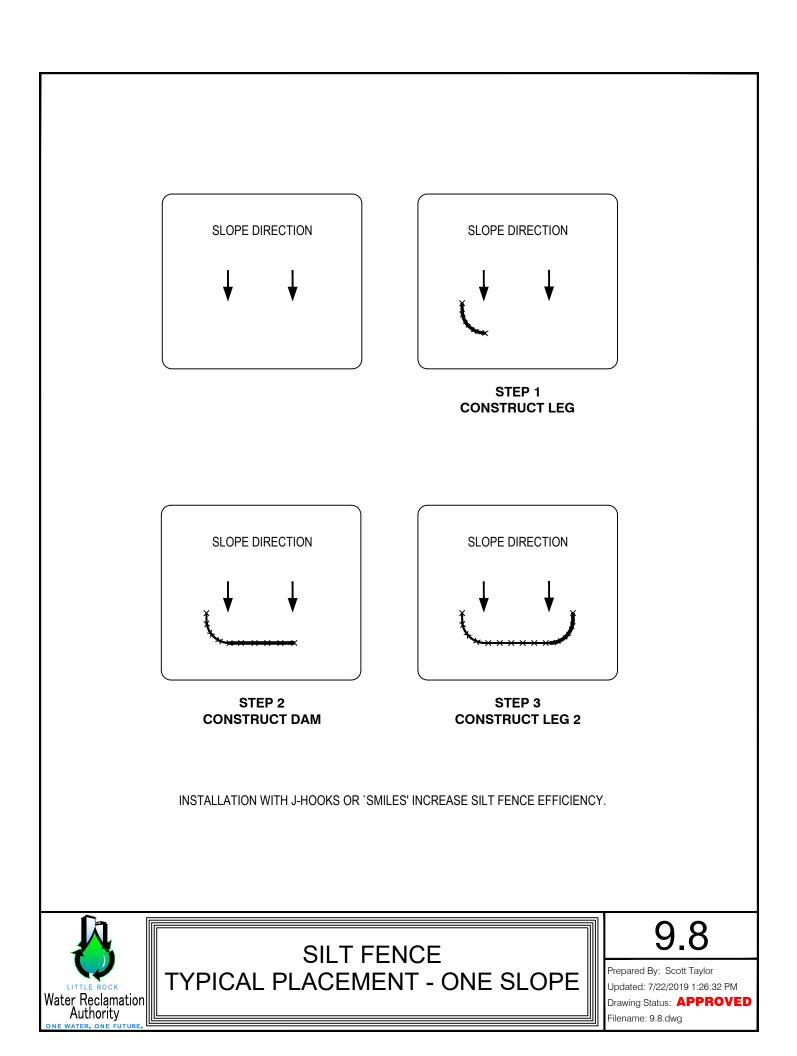


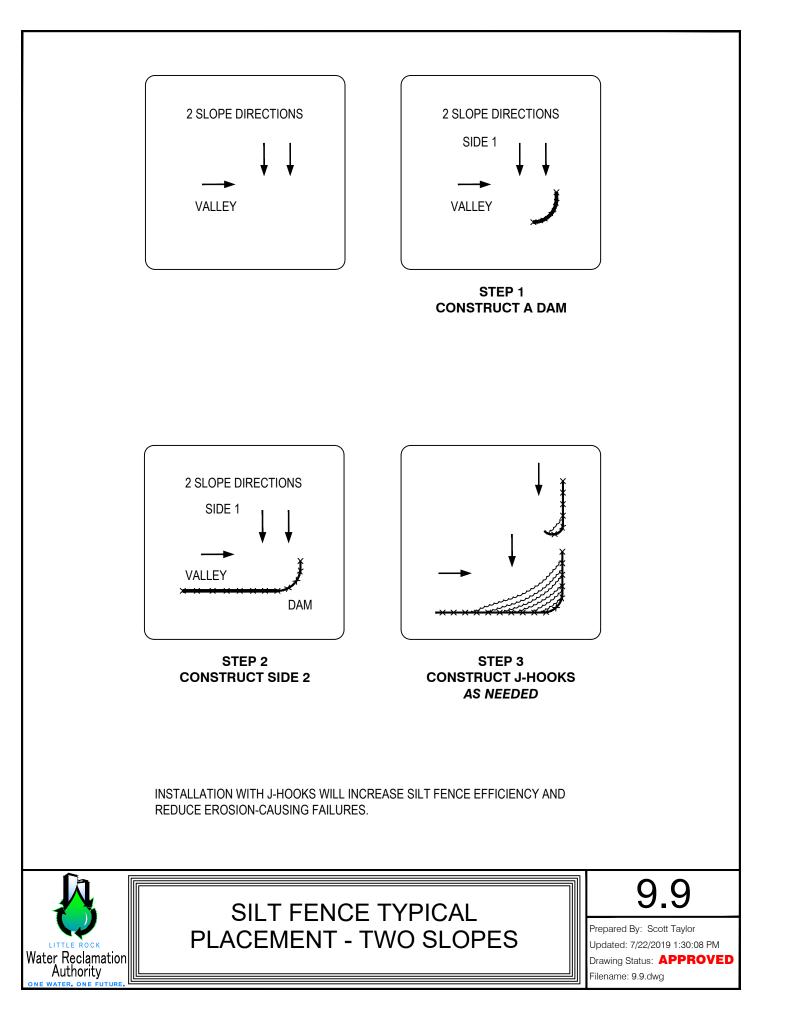


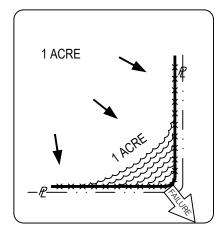




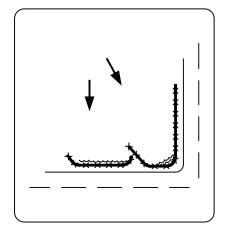




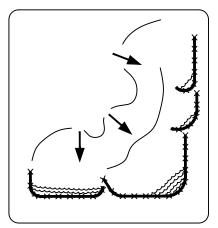


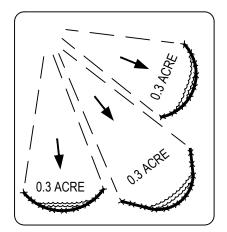


<u>Incorrect</u> - <u>Do Not</u> layout "perimeter control" silt fences along property lines. All sediment laden runoff will concentrate and overwhelm the system.



Correct - Install J-hooks





Discreet segments of silt fence, installed with J-hooks or `smiles' will be much more effective.



## SILT FENCE PLACEMENT FOR PERIMETER CONTROL

## 9.10

Prepared By: Scott Taylor Updated: 7/22/2019 1:32:58 PM Drawing Status: **APPROVED** Filename: 9.10.dwg

